Mega 3 IP Camera
User manual

2012-04B

Introduction

TS38MN is an embedded and 38*38 standard definition surveillance device designed for compressing and processing audio and video data. It consists of audio and video compressing encoder, IO channel, network interface, audio and video interface, RS422 serial interface, protocols interface and software interface. It also can process video, which mainly responsible for capturing image data, compressing H.264 image data, process data transmitted on internet and audio and video data, transmit real-time image and audio at the same time on network.
It can compress bigger and clearer image because of faster digital processor. Its smoother transfer and clearer display because of advanced OS and audio. Its reliable and stable running depend on embedded server, out of PC, high scheduling efficiency, curing code in the flash. Accessing it by IE browser. Two-way voice intercom, dynamic IP address and transfer image and audio conveniently are available.

FEATURE:

- Two video and audio is independent, 60 frame activity video per second
- H.264 video compression standard
- Embedded WEB server and surveillance, configure, update by IE
- Transfer two-way audio on internet; adjust frame rate according bandwidth automatically
- Variable Bit rate, it can limit compressing stream of image while the image is fixed.
- Two domains, dynamic IP or ADSL is easily
- Bit rate range from 64 kbps to 4 Mbps, frame rate range 1 to 25 (30)
- Capture picture and local record is available.
- Motion detect alarm is available by setting checking area and Sensitivity
- Prerecord while alarm is available
- 10/100 M Ethernet
- IO interface connects external device is available
- RS485 interface connect network transparent channel, control transparent channel of TS38MN by client
- Multi-user simultaneous accessing is available
- Input and output alarm message is available

PC configuration: CPU 3.0GHZ; memory 1G; 128M graphics card; 2.1 sound card; audio output; Mic input, windows 2000/XP/2003/Vista/7, IE6.0-8.0.
There may be technical inaccuracies and typographical errors in the manual. Products, updated in real time, the contents of the manual will be updated from time to time without prior notice. The updated content will be added in new version. If there is difference between manual and products, all product-based.

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1 Network Setup

1.1 Network Status

The connection schematic diagram for the entire system frame of TS38MN as figure 1.1. Connect PC and TS38MN directly and set network parameter as follow: 1.the default IP address is 192.168.0.123, net mask is 255.255.255.0, so you must add a IP address make the PC can access the device (such as 192.168.0.88). 2. The net mask of the PC and the TS38MN must be same. Make sure the direct network is through, as follow: “Start”-“Run”-enter “cmd” then enter “ping 192.168.0.123” and press “enter” on the keyboard. As figure 1.3, 1.4, and1.5. While the network is not through, please check it.

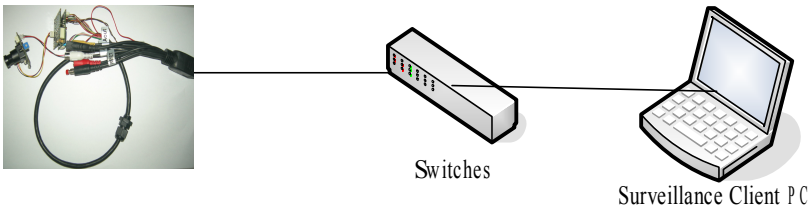


Figure1.1 connecting schematic diagram

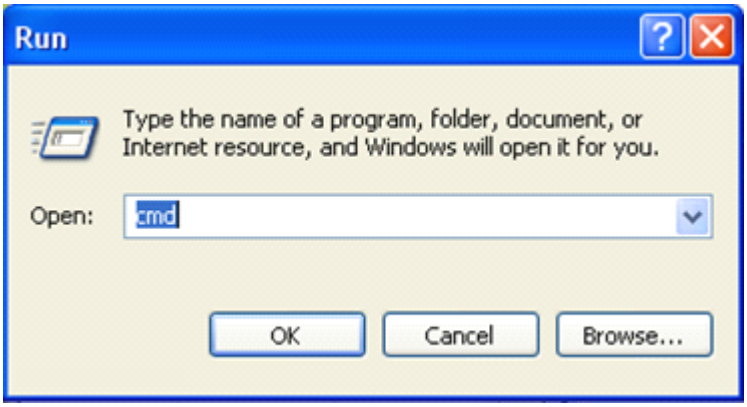
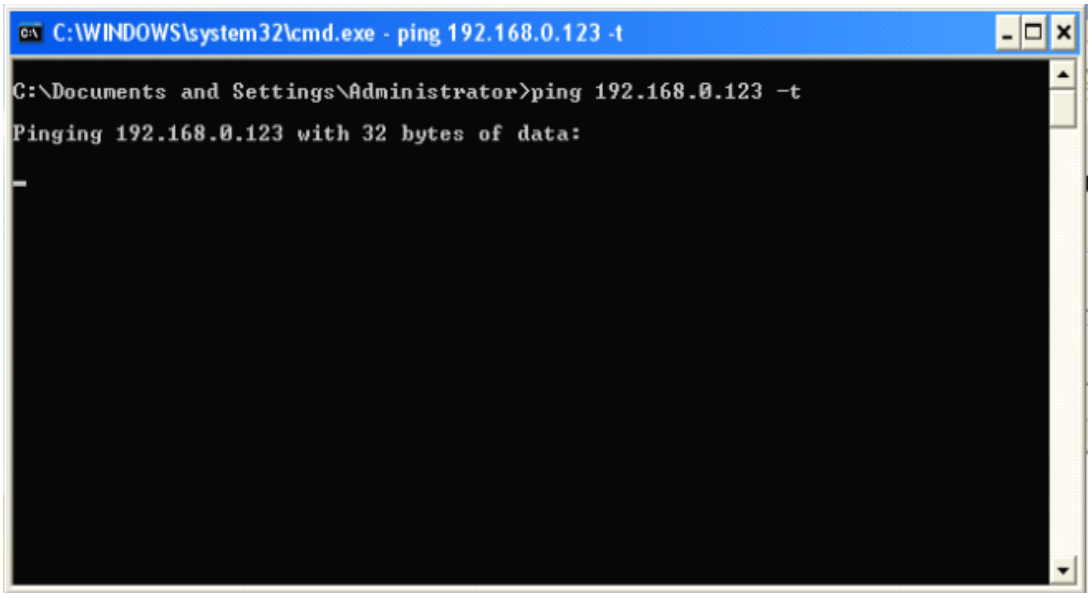


Figure1.2 enter “cmd”


C:\WINDOWS\system32\cmd.exe - ping 192.168.0.123 -t
C:\Documents and Settings\Administrator>ping 192.168.0.123 -t
Pinging 192.168.0.123 with 32 bytes of data:

Fiure1.3 enter “ping 192.168.0.123 –t”

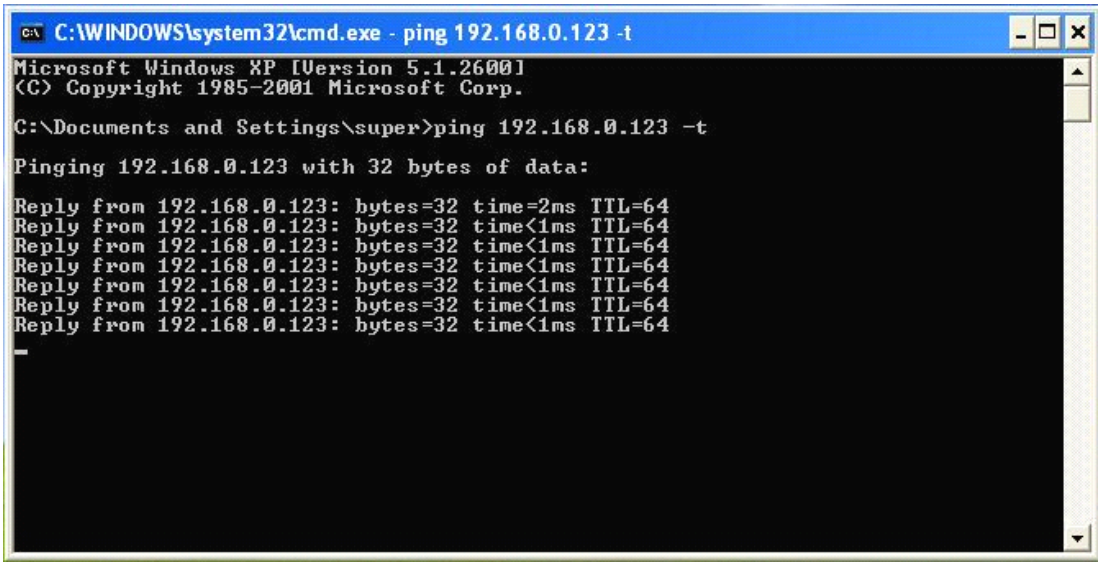

C:\WINDOWS\system32\cmd.exe - ping 192.168.0.123 -t
Microsoft Windows XP [Version 5.1.2600]
(C) Copyright 1985-2001 Microsoft Corp.
C:\Documents and Settings\super>ping 192.168.0.123 -t
Pinging 192.168.0.123 with 32 bytes of data:
Reply from 192.168.0.123: bytes=32 time=2ms TTL=64
Reply from 192.168.0.123: bytes=32 time<1ms TTL=64
Reply from 192.168.0.123: bytes=32 time<1ms TTL=64
Reply from 192.168.0.123: bytes=32 time<1ms TTL=64
Reply from 192.168.0.123: bytes=32 time<1ms TTL=64
Reply from 192.168.0.123: bytes=32 time<1ms TTL=64
Reply from 192.168.0.123: bytes=32 time<1ms TTL=64

Figure1.4 network is through

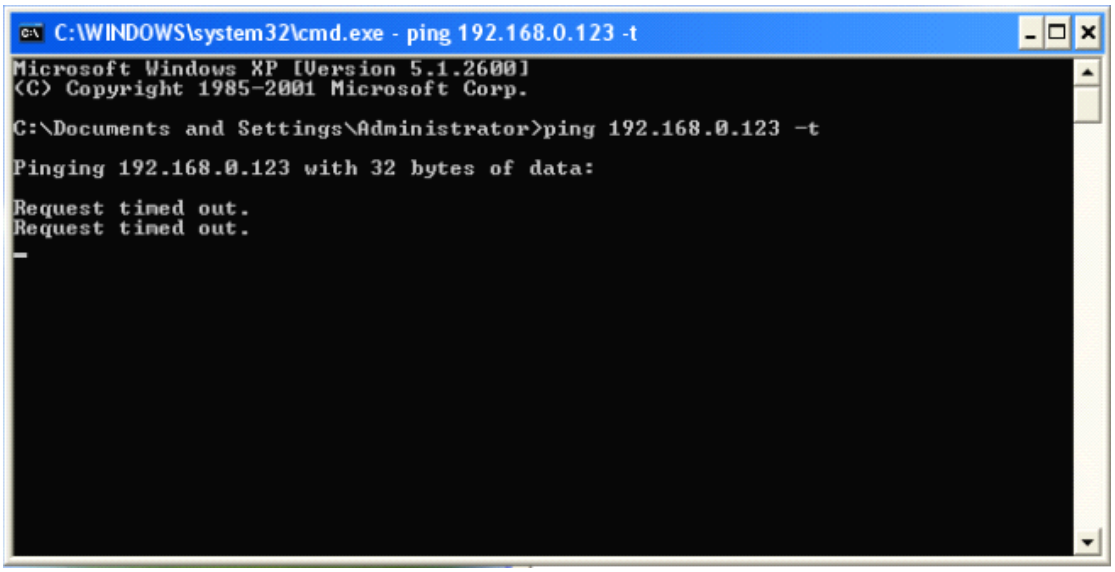

C:\WINDOWS\system32\cmd.exe - ping 192.168.0.123 -t
Microsoft Windows XP [Version 5.1.2600]
(C) Copyright 1985-2001 Microsoft Corp.
C:\Documents and Settings\Administrator>ping 192.168.0.123 -t
Pinging 192.168.0.123 with 32 bytes of data:
Request timed out.
Request timed out.

Figure 1.5 networks is not through

After then, power on. Enter the IP address in IE browser and press “enter”. Then it will display the following interface as figure1.6, and then enter user name (admin) and password (123456) and click “Login”.

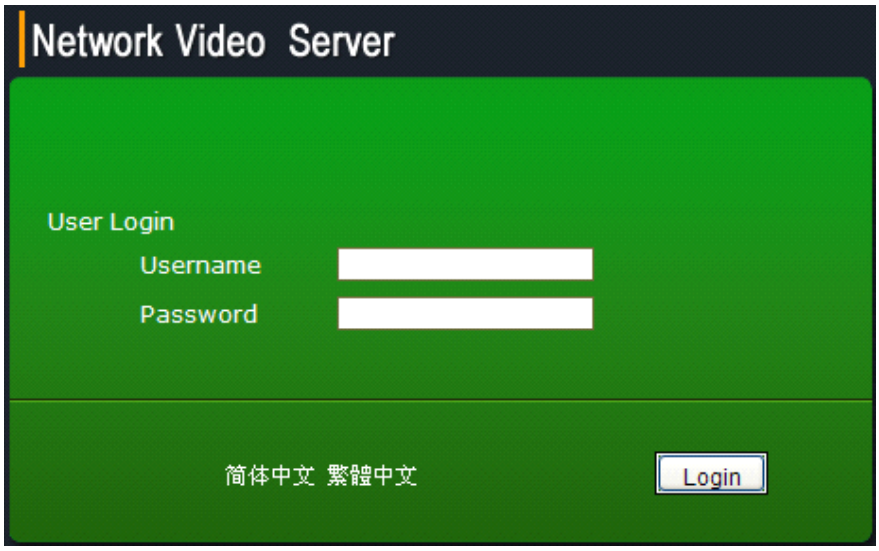


Figure 1.6 Login interface

After enter system select and click “Network Setup”, it will display interface as figure 1.7, displaying the IP address, gateway, net mask and DNS and so on. The detail information please refers to the actual configuration.

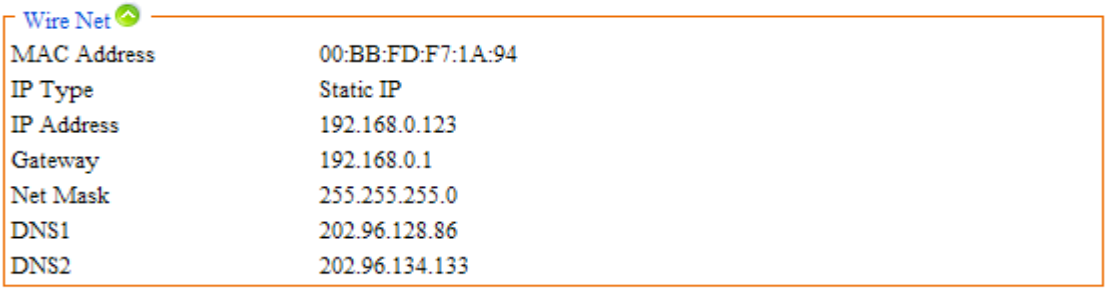


Figure 1.7 Network status

1.2 Ethernet Setup

Ethernet setup as figure 1.8, all the parameter in the interface is needed to be reset. Also you can modify the IP address by IP search (carried by UC2) or other tools. Make sure the IP address to be modified and IP address of your PC are in the same network segment, and the IP address to be modified can not be the same as the IP address of the PC in the network segment. After reset IP address the device will reboot, then use the new IP address to access the TS38MN.
Net mask match with IP address to distinguish network address with local address, as 255.255.255.0. the correct net mask is the premise for saving it.
Gate way is point between two networks such as router. So you can enter the router IP address.
DNS server address is host IP address running the domain server, which provide by network operators.
If enable the DHCP then it will obtain dynamic IP.

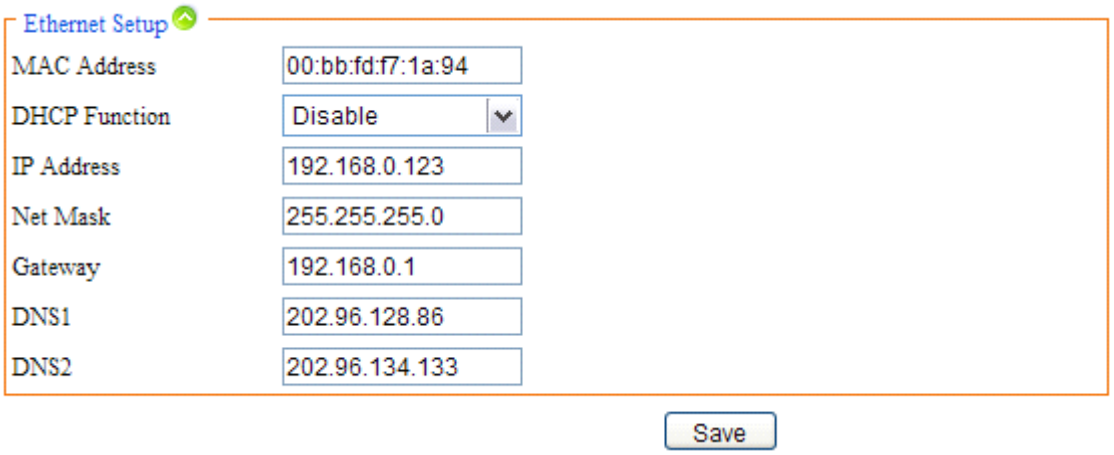


Figure 1.8 Ethernet setup

1.3 WIFI Setup

WIFI setup as figure 1.9. First you need to set wireless router called AP for short. All parameters in this interface must be the same with the router setting. This interface only display with WIFI firmware of TS38MN.

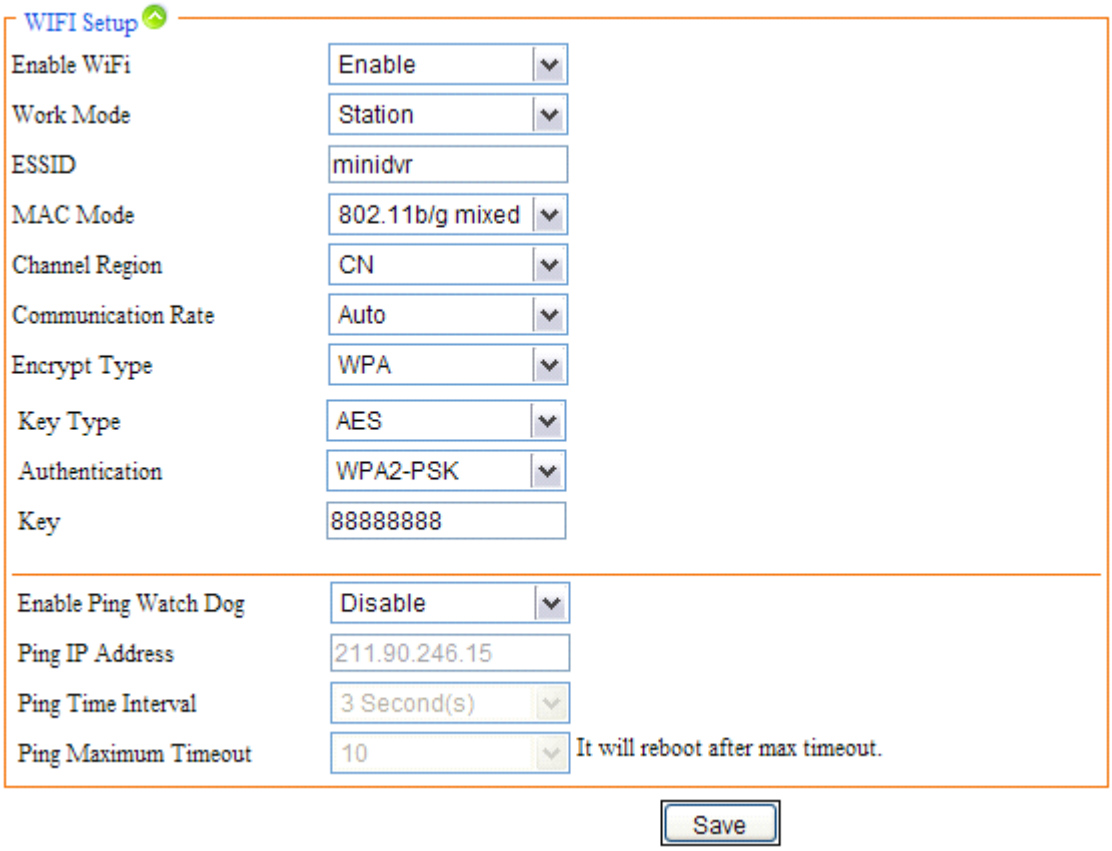


Figure 1.9 WIFI Setup

1.4 ADSL Setup

ADSL setup as figure 1.10

The username and password of the ADSL are provided by network operators, enter the correct username and password, enable ADSL and save it.

It can run correctly on premise that the username, password and the confirm password is correct.

It will prompt error while the password and confirm password is incorrect. In order to verify the ADSL is run correctly, you can enable DDNS and access the device by domain name. enable DDNS as figure 1.11 DDNS Setup)

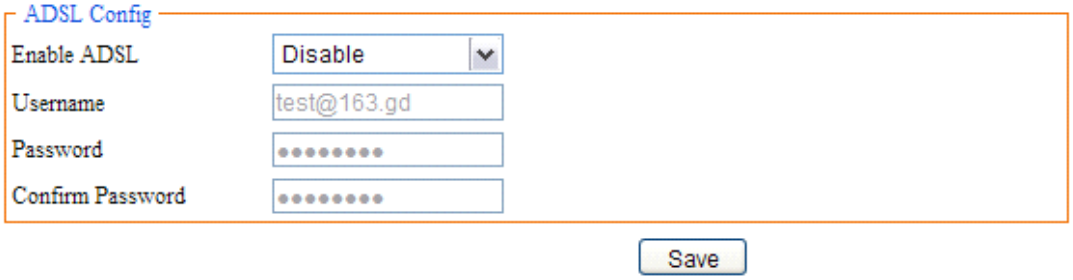


Figure 1.10 ADSL Setup

1.5 DDNS Setup

DDNS setup as figure 1.11
First you must have a domain name. www.3322.org is recommended; please remember the username, password and domain name.
Then enable DDNS, select the DDNS Server as “3322.org”. if your domain name is “test.3322.org”, please enter “test” in the DDNS Domain, and the User Name and Password is the username and password that applied in the www.3322.org. set the Refresh Time as 1 minute, then DDNS will work after 1 minute.
Last you can access the device by domain name.

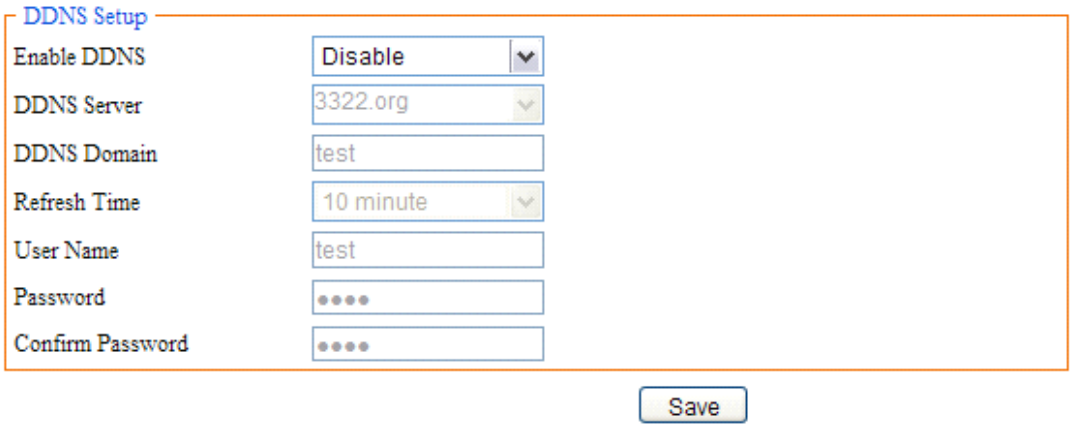


Figure 1.11 DDNS Setup

1.6 UPNP Setup

UPNP setup as Figure1.12.
UPNP run by external address and port.

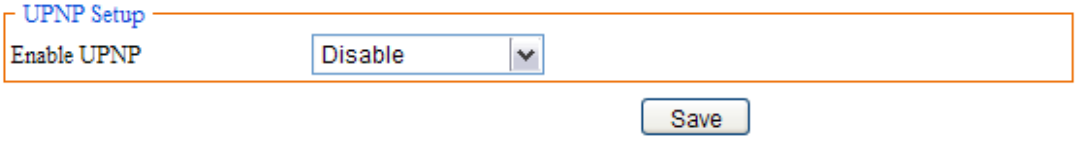


Figure1.12 UPNP Setup

1.7 FTP Account

FTP account setup as Figure1.13.
First a FTP server is indeed. Then apply a FTP account from the FTP server (username and password). And you must create four directory as “alarm”, “log”, “set”, “update” or other directory name, also you can enter “./” then the entire document will be save in the root of the FTP server.
The default port of FTP is 21. The information of the interface must be correct to make sure the FTP function run correct.
Alarm upload, log backup, configure backup and update can be uploaded by FTP.

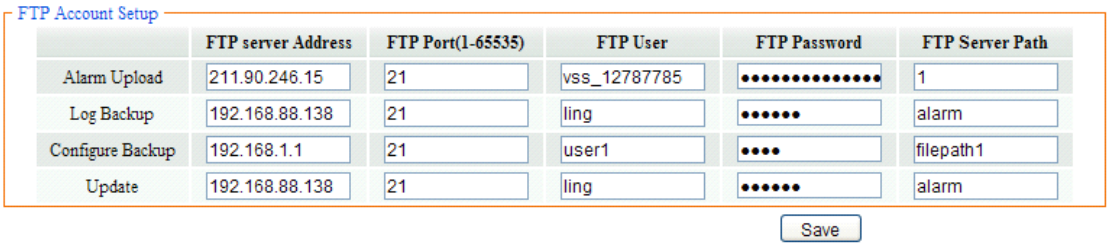


Figure1.13 FTP Setup

1.8 SMTP Account Setup

SMTP account setup as figure1.14.
The SMTP function can run correctly on premise that the entire information in the interface is correct.
SMTP Server Address is the IP address of the SMIP server, the default port is 25, the authentication is enabling.
The public network mail is no available. The show account can be anything.
The user mail address can not be empty and must be efficacy.
The CC mail address can be empty or other information. But only the correct address can receive mail.

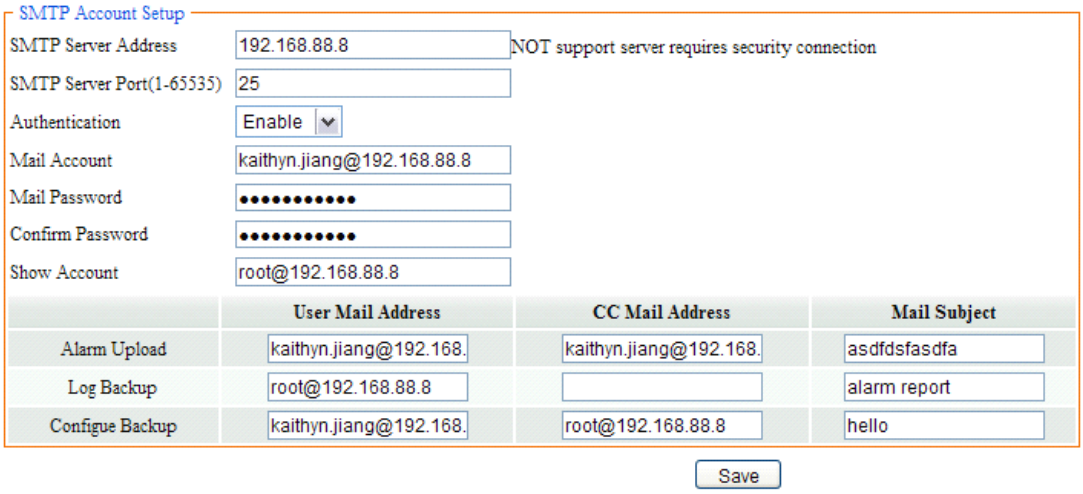


Figure1.14 SMTP Account Setup

1.9 Stream Setup

Stream Setup as figure 1.15.
Access Protocol: while the device is in public network, TCP is a better choose, while the device and the user are the same network then UDP is a better choose.
The default WEB port is 80. You can change it at will. But if you change it as 8080, then you enter 192.168.0.123:8080 for accessing the device.
All the port in the interface can change at will but can not be the same. The unavailable port is a bad choose.

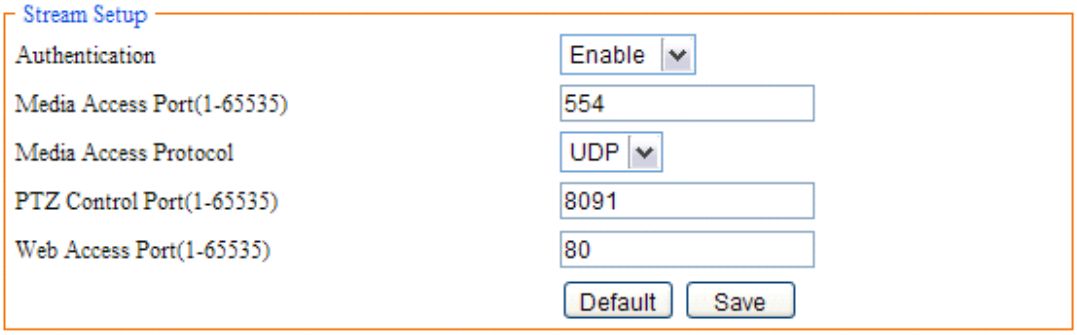


Figure1.15 Stream Setup

1.10 Platform Setup

Platform Setup as figure1.16.

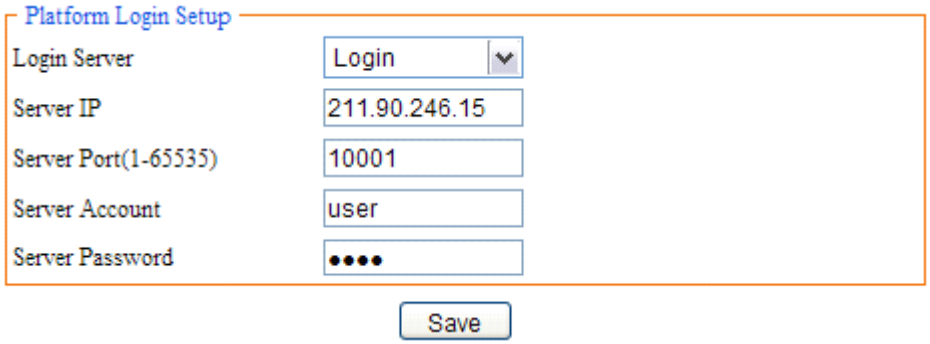


Figure1.16 Platform Setup

The device can login platform server on the premise that the server IP and Server port is corresponding to the server. The server account and password can enter them wt will. Of course enable login server is indeed.

2 Media Setup

2.1 Play Video

The window for playing video as 2.1, it includes video window and PTZ control.

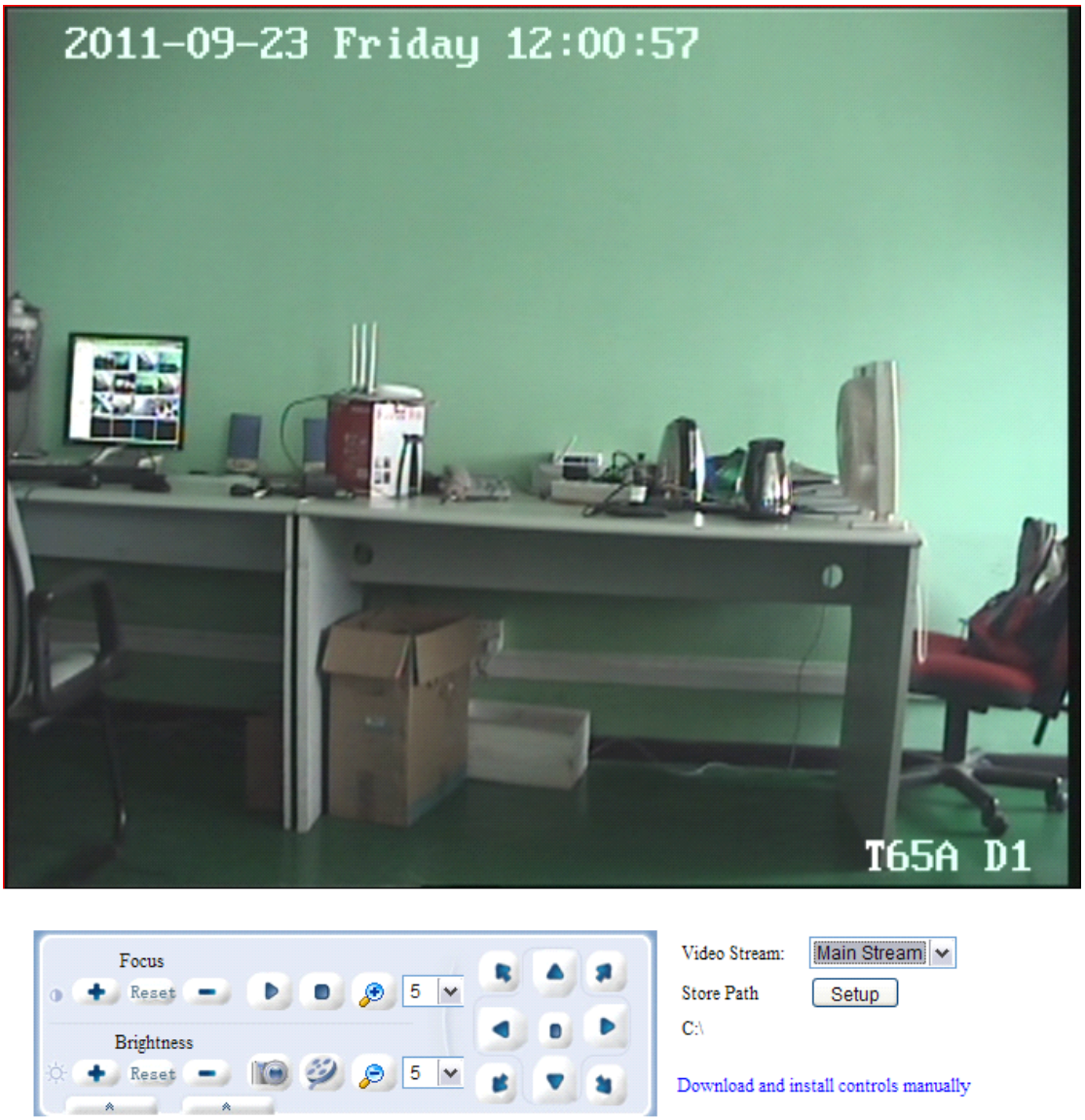


Figure2.1 Playing Video

Video window： Double click the real-time video then it will display video full-screen. Double click it again then it will recovery default window.

Video Stream: Select “Main Stream” or “Sub Stream” to play in the video window.

Store Path: click “Setup” for resetting the store path.

Focus+: Focus far

Focus-: Focus near

Focus Reset: Reset default focus.

Brightness+: Increase brightness

Brightness-: Reduce brightness

Brightness Reset: Reset default brightness

Play: Click the button, it will play video while the video stop

Stop: Click the button to stop real-time video

Capture: Click the button once, it will capture a picture

Record: Click the button to start to record, re-click the button to stop to record.

Zoom In/ Zoom Out: Zoom lens

Left- Right/Up-Down Speed: The PTZ speed of rotation range from 0 to 10
Direction: Click the 9 buttons to control the PTZ
Click in the left, it will pop a new interface as figure2.2:

Figure 2.2 Preset

You can add/delete/call preset in the interface, steps as follow:
Add Preset: the preset number range from 1 to 255, first turn lens and enter preset number then turn lens again and enter preset number as so on.
Note: it will not save the preset number greater than 65
Del. Preset: Select a preset number to be deleted from the option box and click "Del. preset" bottom
Call Preset: Select a preset number from the option box and click "Call preset" then the lens will turn automatically.
Click in the right, it will pop a new interface as figure2.3:

Figure2.3 Advanced function

Detail as follow:
Scan Begin: Turn lens and select "Scan Begin" in the "Orbit/Scan List" and click "Run", then the direction is a "Scan Begin"
Scan End: Turn lens again and select "Scan End" in the "Orbit/Scan List" and click "Run", then the direction is a "Scan End"
Scan On: When the "Scan Begin" and "Scan End" is done, then select "Scan On" in the "Orbit/Scan List", and then the lens will turn between "Scan Begin" and "Scan End"
Scan Off: While the "Scan On" is running, select "Scan Off" to stop "Scan On"
Orbit: Select "Orbit" and click "Run" then the lens will turn among all preset number.
Orbit Stop: Select "Orbit Stop" and click "Run" to stop orbit.
Advanced Function: Includes "Black/White", "Color", "Mirror Off/On", "Freeze Off/On", "Steps Off /On", "Screen Off/On", "Lumen Off/On", "ILL Off/On", "Camera Reset/Switch", "B/W Auto", "WB R/G/B/M", "Initial Set", "Menu", "Track Off/On", "Path On/Off", for example for "Black/White" and "Color": we can see the preset number of "Black/White" and "Color" is 64, but "Black/White" is "Set preset" and "Color" is "Call preset". The work of the advanced function is "set preset" and "call preset". So select "Black/White", it will play in black/white mode, while select "Color" it will play in color mode. All the function are same with them, but different camera with difference, please refer to the

corresponding user manual of camera.

2.2 Video Setup

Video capture setup include “Brightness”, “CB Saturation”, “CR Saturation” and “Contrast”, different country with different “Video Format”, in China just PAL format.

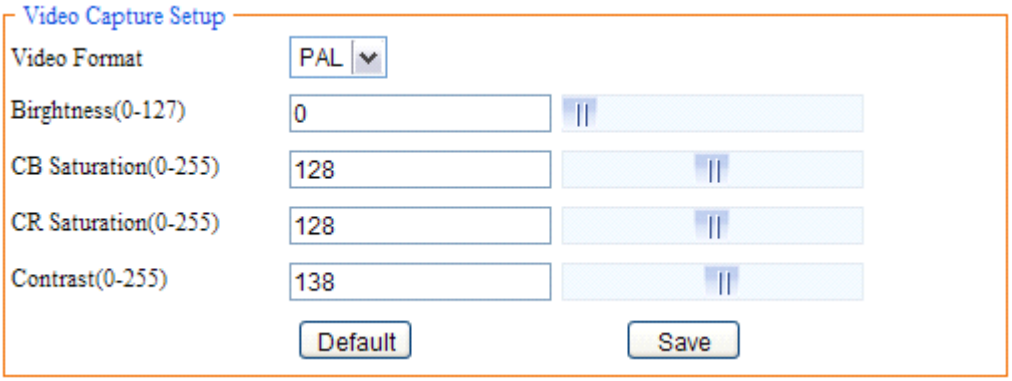


Figure 2.4 Video Capture Setup

You can enter number manually or drag the slider; also click “default” is a good method. High “CB Saturation” means color is more obvious; High “CR Saturation” means the figure is more saturated; High “Contrast” means the effect is more obvious. All the parameters must according to the physical environment.

2.3 Time and Title Setup

As we know, time and title are displayed in the video window. But you can hide them or set their transparency, position and so on.

Transparency range from 0 to 100. 0 means the time and title is visible but 100 is not. (The parameter is reserved, do not work)

There are 8 time format, you can choose under preference.

There are 4 time/title positions, time and title display position to be in a different horizontal position.

The max length of the title message is 31 byte. Do not forget to save it!

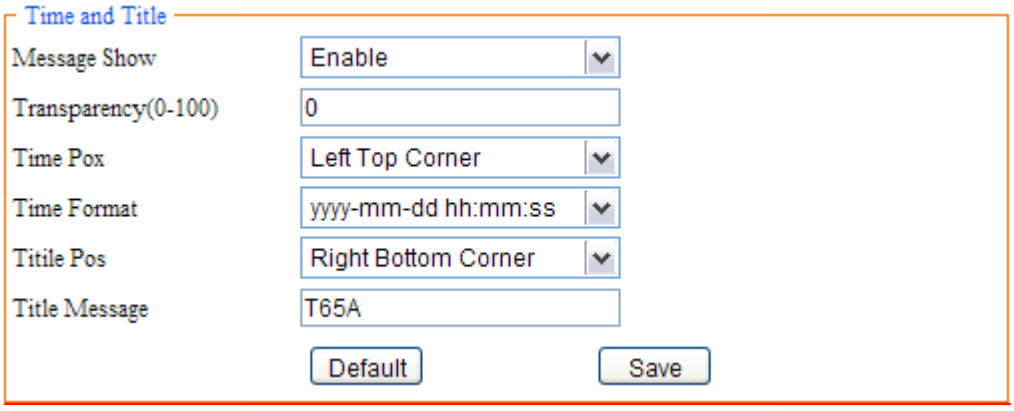


Figure2.5 Time and Title

2.4 Video Encode

There is only one resolution with the main stream. But there are five resolutions with sub stream. All the encode format are H.264.
As we know, I frame is a key frame. I frame interval is too e, the quality of the video will be poorer while the network is poor. So good network is a promise.
When the message of the video increase imminently and the bandwidth is fixed, you can choose VBR (Bit rate Control), mosaic and shaking is the result when choose CBR. Fixed bandwidths first when choose CVBR.
Larger frame rate means more fluent video. Smaller frame rate means slower image. 20 frames per seconds is a best choose.

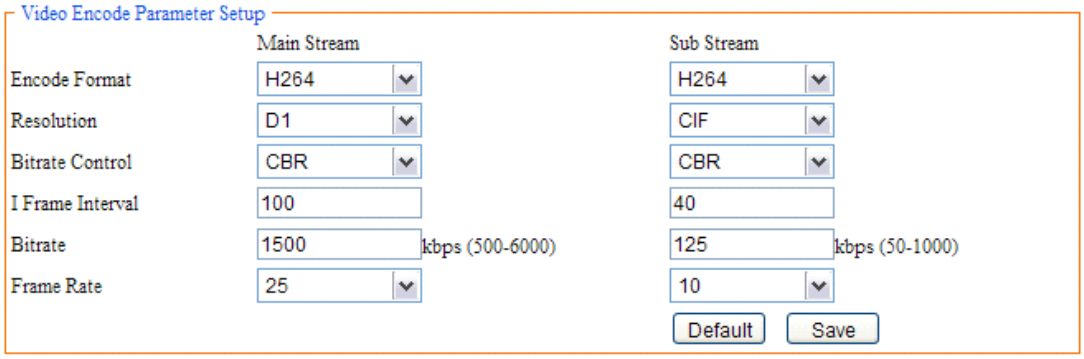


Figure2.6 Video Encode

Bit rate related to the speed of video transmission. The speed of D1 is at least 500, but CIF is only 50. The bit rate is too small result in poor image. Do not forget to save it!

2.5 Picture Capture

In the interface, “Picture Source”, “Picture Quality” and “Capture Speed” need to be set. Of course, the default parameter is another way.

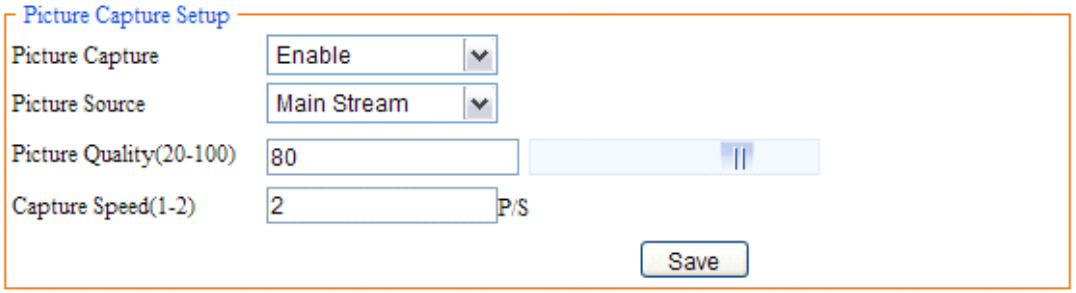


Figure2.7 Picture Capture

Picture source include “Main Stream” and “Sub Stream”; Picture quality range from 20 to 100, you also can drag the slider; Capture speed between 1 and 2, means 1 or 2 pictures per second.

2.6 Audio Capture

Only audio volume related to audio capture. Volume range from 1 to 100, you can enter number manually or drag the slider. Do not forget to save it!

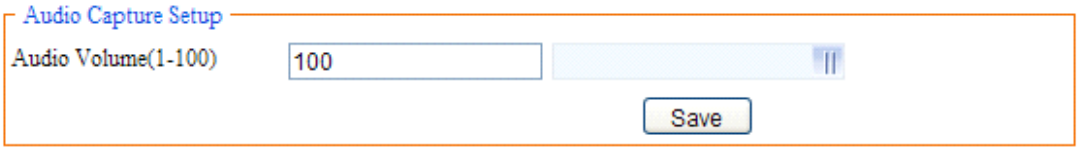


Figure2.8 Audio Capture

2.7 Audio Encode

Enable “Enable Encode”. There are two type of encode, one is AAC another is G.711. G.711 with a fixed sample rate and bit rate, but AAC with three sample rate and bit rate such as 16K, 24K, 32K.

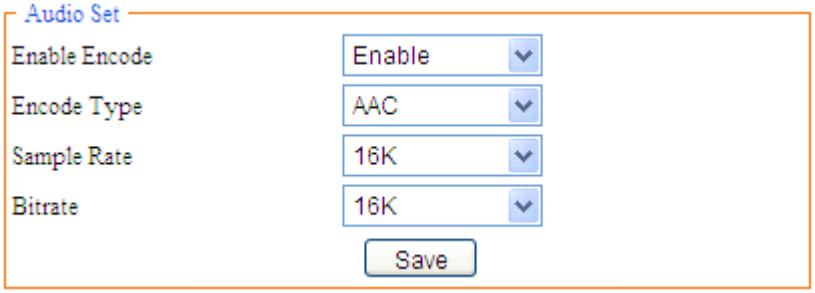


Figure2.9 Audio Encode

2.8 Media Status

In this interface, the main duty is display the status of video encodes.

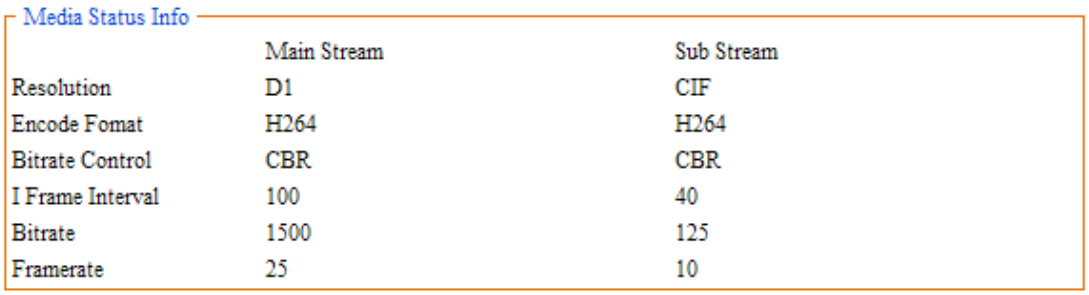


Figure2.10 Media Status

3 PTZ Setup

3.1 PTZ Basic

There are 8 parameters about PTZ basic setup, for example “PTZ Protocol”, “Address Port”, “Baud rate”, “Data bits”, “Stop bits”, “Verify”, “Data Control”, “Boot action”, as following figure:

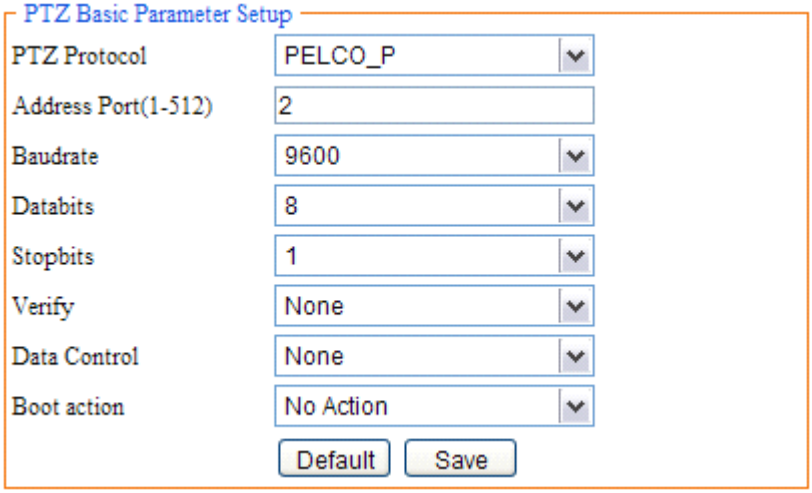


Figure3.1 PTZ Basic Parameter Setup

The difference between PELCO-D and PELCO-P is different baud rate. All the parameter must be the same with the setup of corresponding camera. You can refer to the camera user manual.

3.2 PTZ Advanced

All the parameter about PTZ advanced as figure 3.2. The detail information refers to the user manual of camera.

PTZ Advanced Parameter Setup

Index	Command	Preset Point	Set/Call Preset
1	Scan Begin	51	Set Preset
2	Scan End	52	Set Preset
3	Scan On	51	Call Preset
4	Scan Off	52	Call Preset
5	Orbit	53	Call Preset
6	Black/White	64	Set Preset
7	Color	64	Call Preset
8	Mirror Off	63	Set Preset
9	Mirror On	63	Call Preset
10	Freeze Off	62	Set Preset
11	Freeze On	62	Call Preset
12	Steps Off	58	Set Preset
13	Steps On	58	Call Preset
14	Screen Off	57	Set Preset
15	Screen On	57	Call Preset
16	Lumen Off	56	Set Preset
17	Lumen On	56	Call Preset
18	Illumination Off	55	Set Preset
19	Illumination On	55	Call Preset
20	White Balance Manual	61	Set Preset
21	White Balance Auto	61	Call Preset
22	Camer Reset	54	Set Preset
23	Auto Focus Auto	59	Call Preset
24	Auto Focus Manual	59	Set Preset
25	Iris Auto	60	Call Preset
26	Iris Auto	60	Set Preset
27	Menu	65	Call Preset
28	Track On	89	Call Preset
29	Track Off	89	Set Preset
30	Path On	97	Call Preset
31	Path Off	96	Call Preset

Default Save

Figure3.2 PTZ Advanced

4 Record and Replay

4.1 Storage Info

In this interface, just only show the statue of the storage, as figure 4.1

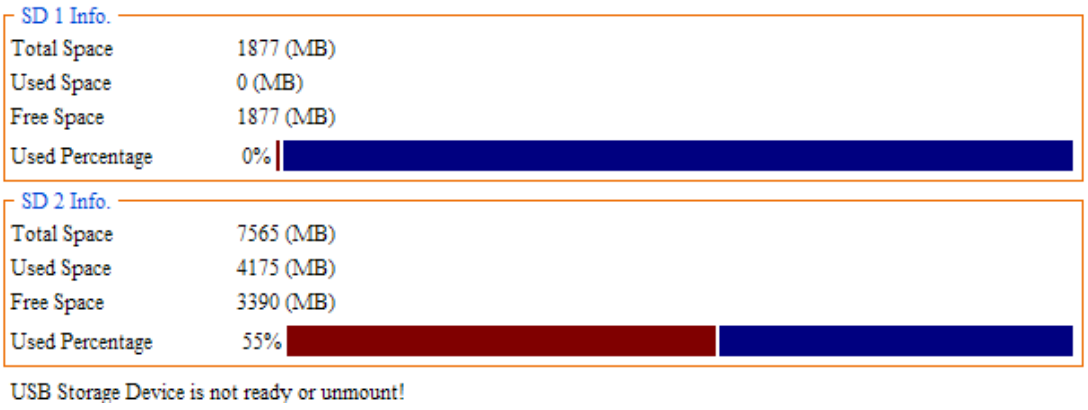

SD 1 Info.
Total Space 1877 (MB)
Used Space 0 (MB)
Free Space 1877 (MB)
Used Percentage 0%
SD 2 Info.
Total Space 7565 (MB)
Used Space 4175 (MB)
Free Space 3390 (MB)
Used Percentage 55%
USB Storage Device is not ready or unmount!

Figure4.1 Storage Information

4.2 Play Back

First you can set the query conditions about querying record as figure 4.2. Be careful, "End Time" can not more 7 days than "Start Time". Record type include schedule, motion detect, alarm and all type; Media type include audio & video, video and picture; video stream include main stream, sub stream and all stream.

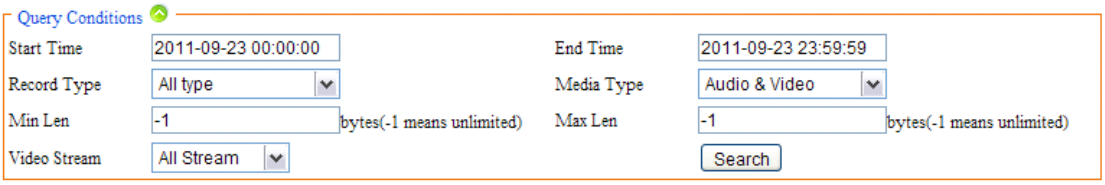

Query Conditions
Start Time 2011-09-23 00:00:00
End Time 2011-09-23 23:59:59
Record Type All type
Media Type Audio & Video
Min Len -1 bytes(-1 means unlimited)
Max Len -1 bytes(-1 means unlimited)
Video Stream All Stream
Search

Figure4.2 Query Condition

Then click "Search", the file will display in list as figure 4.3. The file name is the record time.

Record File List

File Name	Record Type	Start Time	File Size	Media Type	
132747-av-1.avi	Motion Detect	2011-09-23 13:27:47	6312574	Audio & Video	Delete Download
130328-av-1.avi	Motion Detect	2011-09-23 13:03:28	21576368	Audio & Video	Delete Download
121651-av-1.avi	Motion Detect	2011-09-23 12:16:51	21663392	Audio & Video	Delete Download
120123-av-1.avi	Motion Detect	2011-09-23 12:01:23	21090448	Audio & Video	Delete Download
115923-av-1.avi	Motion Detect	2011-09-23 11:59:23	21053428	Audio & Video	Delete Download
115637-av-1.avi	Motion Detect	2011-09-23 11:56:37	20955928	Audio & Video	Delete Download
115348-av-1.avi	Motion Detect	2011-09-23 11:53:48	21446556	Audio & Video	Delete Download
115035-av-1.avi	Motion Detect	2011-09-23 11:50:35	21386044	Audio & Video	Delete Download
114720-av-1.avi	Motion Detect	2011-09-23 11:47:20	3037871	Audio & Video	Delete Download
112831-av-1.avi	Motion Detect	2011-09-23 11:28:31	21354176	Audio & Video	Delete Download
112439-av-1.avi	Motion Detect	2011-09-23 11:24:39	21291380	Audio & Video	Delete Download
112221-av-1.avi	Motion Detect	2011-09-23 11:22:21	21551628	Audio & Video	Delete Download
111638-av-1.avi	Motion Detect	2011-09-23 11:16:38	21233672	Audio & Video	Delete Download
111115-av-1.avi	Motion Detect	2011-09-23 11:11:15	21536352	Audio & Video	Delete Download
110516-av-1.avi	Motion Detect	2011-09-23 11:05:16	21262720	Audio & Video	Delete Download
105730-av-1.avi	Motion Detect	2011-09-23 10:57:30	11562961	Audio & Video	Delete Download
105525-av-1.avi	Motion Detect	2011-09-23 10:55:25	21576940	Audio & Video	Delete Download
105133-av-1.avi	Motion Detect	2011-09-23 10:51:33	21422692	Audio & Video	Delete Download
103942-av-1.avi	Motion Detect	2011-09-23 10:39:42	21396644	Audio & Video	Delete Download
103707-av-1.avi	Motion Detect	2011-09-23 10:37:07	21635664	Audio & Video	Delete Download

Previous Page Page: 1 Next Page

Figure4.3 Record File List

Last, you can play or delete or download the files. Click "Download" behind the selected record to play. As figure 4.4.

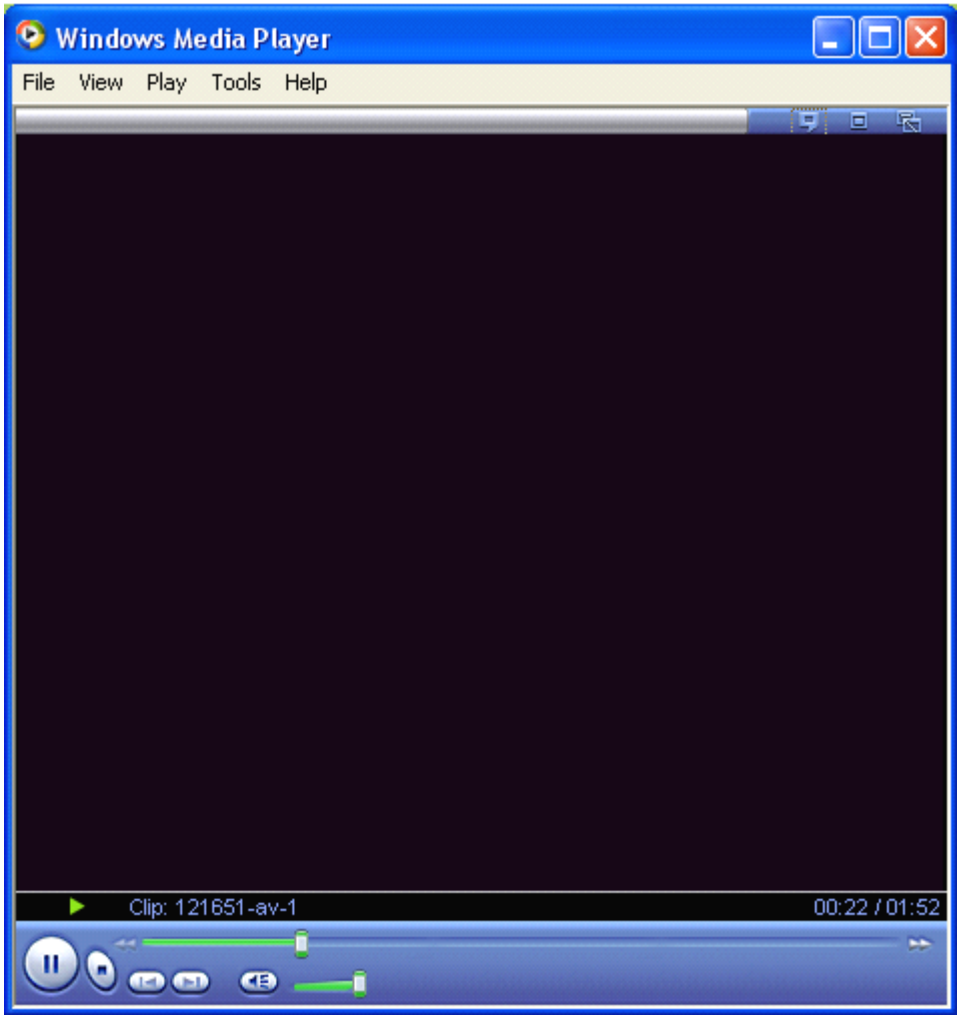


Figure4.4 Play record

Click “Delete” behind the selected record to delete. As figure 4.5.

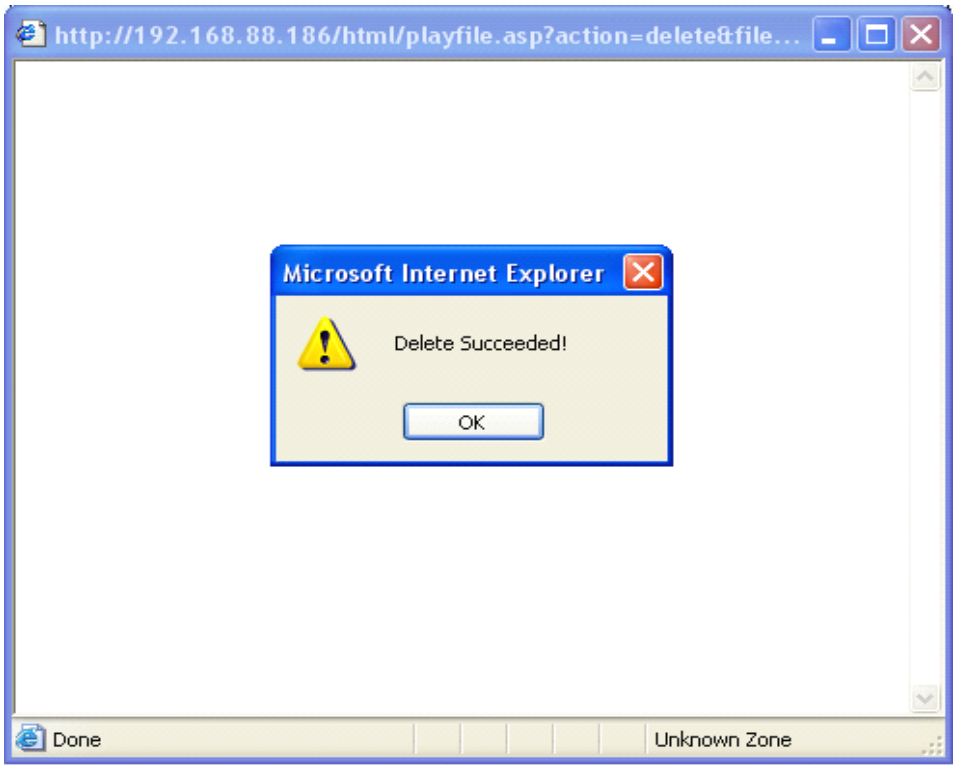


Figure4.5 Delete record succeeded

First right click “Download” for download the selected record then it will prompt a dialog figure 4.6, select a directory and change a name for the record, last click “Save”, well the record save succeeded.

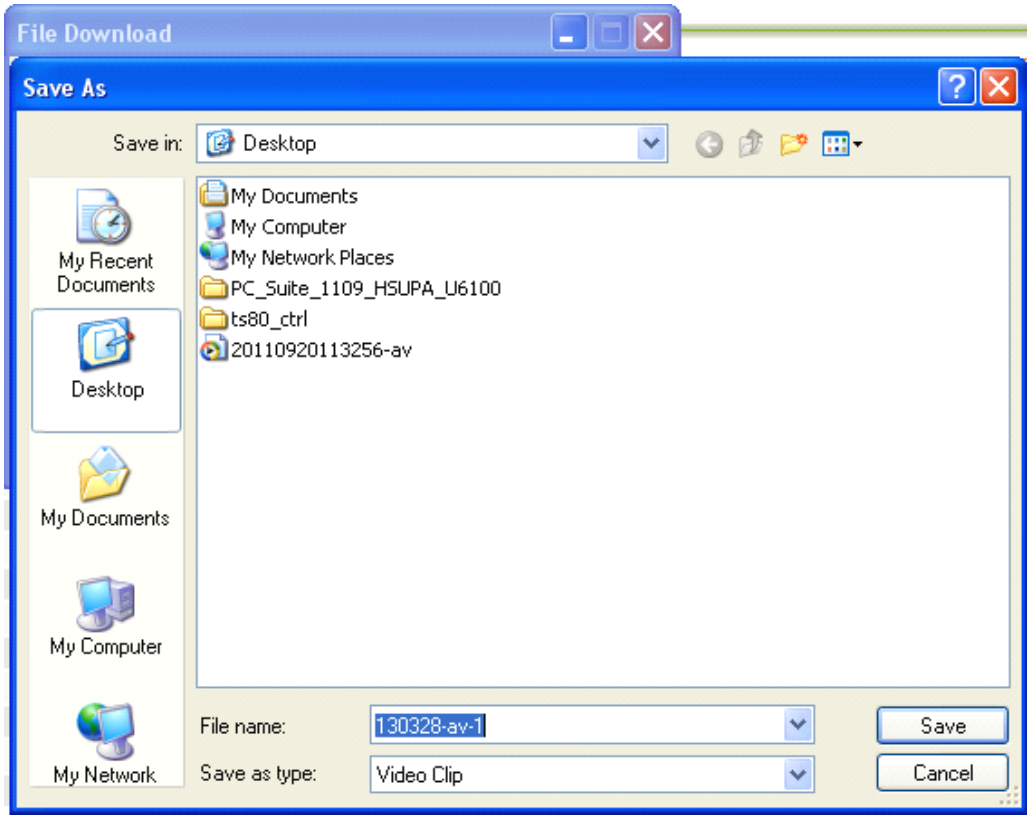


Figure4.6 Dialog

4.3 Record Setup

4.3.1 Basic Setup

In this option, you need to set 4 parameters “Local Storage”, “Storage Media”, “Storage Strategy” and “Max Time Each File”. There are 7 methods about storage media. Storage strategy includes “Overwrite When Full” and “Stop When Full”. “Overwrite When Full” means when all the storage is full, it will delete the old record and go on recording; “Stop When Full” means when all the storage is full, it will stop to record. The max time of each file is 10 or 20 or 30 minutes.

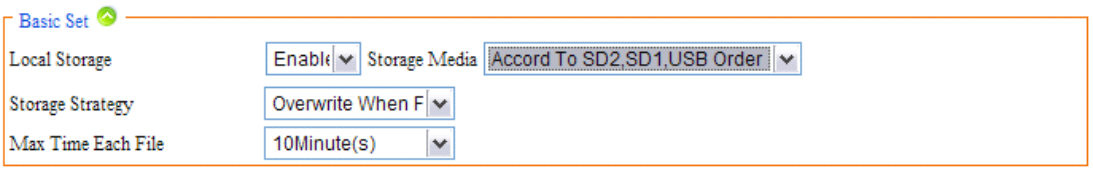


Figure4.7 Basic Set

4.3.2 Motion Detect Alarm Record

Motion detect alarm record means it will start recording when motion alarm is coming.
Video stream include “Video Main Stream” and “Video Sub Steam”. The former means record with main stream; the latter means record with sub stream. Media type includes “Audio And Video” which means record with audio and video and “Video” which means record without audio. Prerecord time means it will prerecord when motion alarm is coming, the max time is 5 seconds and the min time is 1 seconds. The record time range from 10 to 600 seconds. Also you can set the motion alarm record upload to FTP or send a email to you. Do not forget to save it!

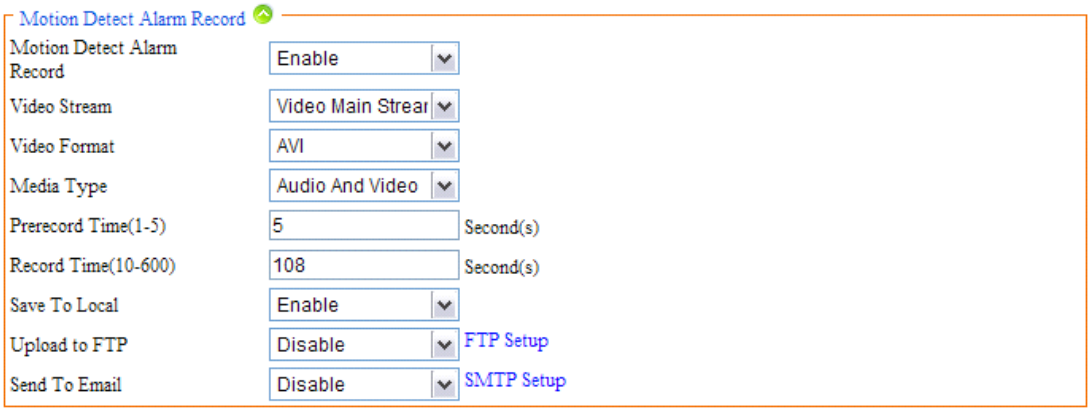


Figure4.8 Motion Detect Alarm Record

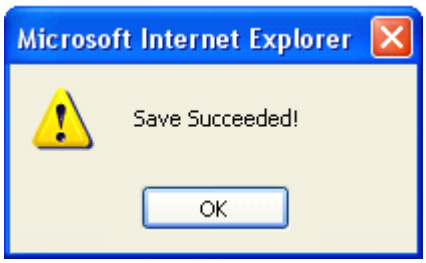


Figure4.9 Save

4.3.3 Motion Detect Alarm Capture

Another way for “motion detect” alarm is capture. Except precapture and capture time, the other parameter are the same with the parameter of “Motion detect alarm record”. “Precapture” is the same meaning with”Prerecord”, “Capture time” means the time of capturing.

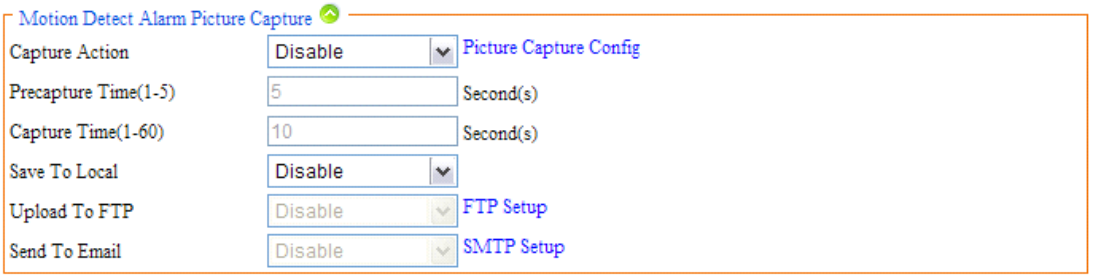


Figure4.10 Motion Detect Alarm Picture Capture

Before enable “Motion Detect Alarm Capture”, you must ensure “Picture Capture Setup” enabled.

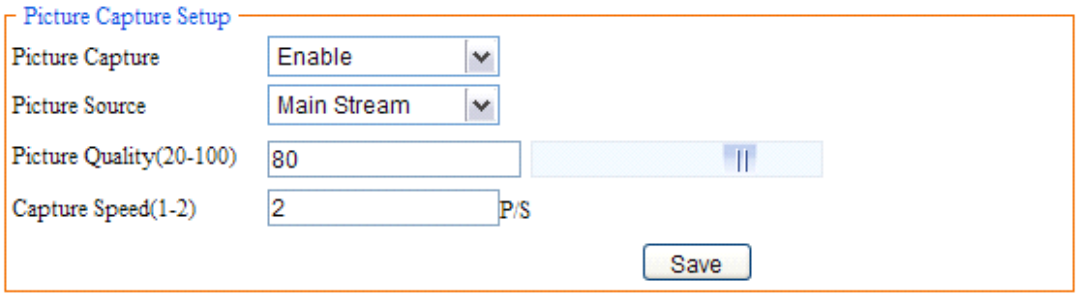


Figure4.11 Picture Capture Setup

4.3.4 IO Alarm Record

The setup method is the same with “Motion Detect Alarm Record”. The condition of alarm is not the same with “Motion detect alarm”, it will alarm when the IO is changing.

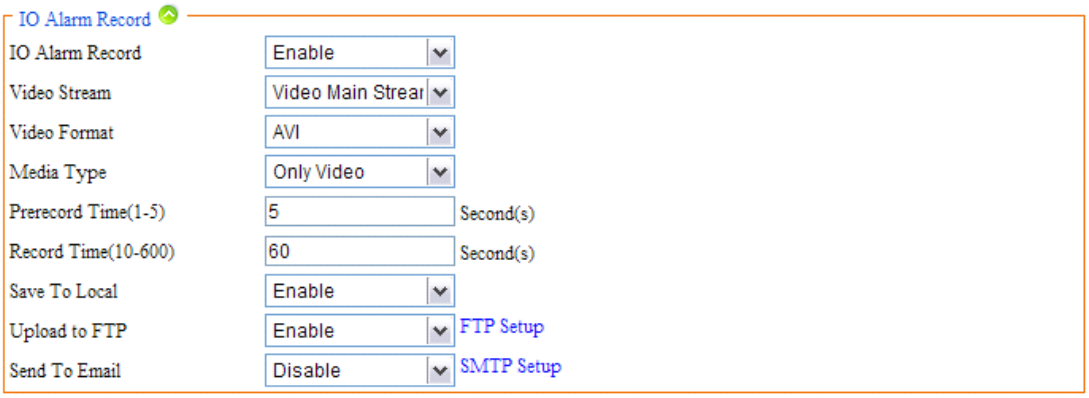


Figure4.12 IO Alarm Record

4.3.5 IO Alarm Picture Capture

The same method with “Motion Detect Alarm Capture”.

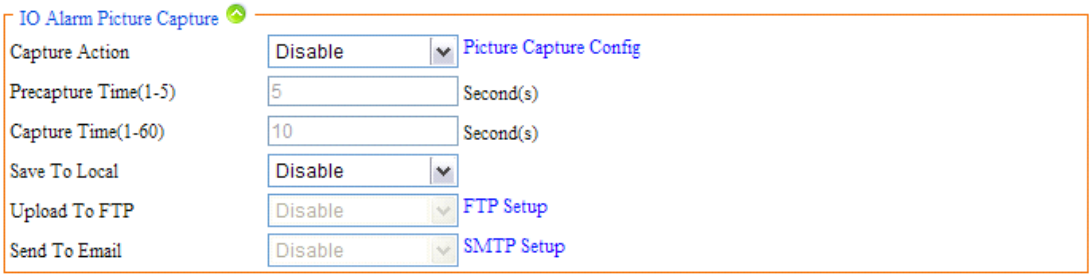


Figure4.13 IO Alarm Picture Capture

4.3.6 Schedule Record

Except “Video Stream” the other parameter is the same with “Motion Detect Alarm Record”, Video Stream include “Snapshot” which means it will take photo during the schedule record time, “Video Main Stream” and “Video Sub Stream”.

Figure4.14 Schedule Record

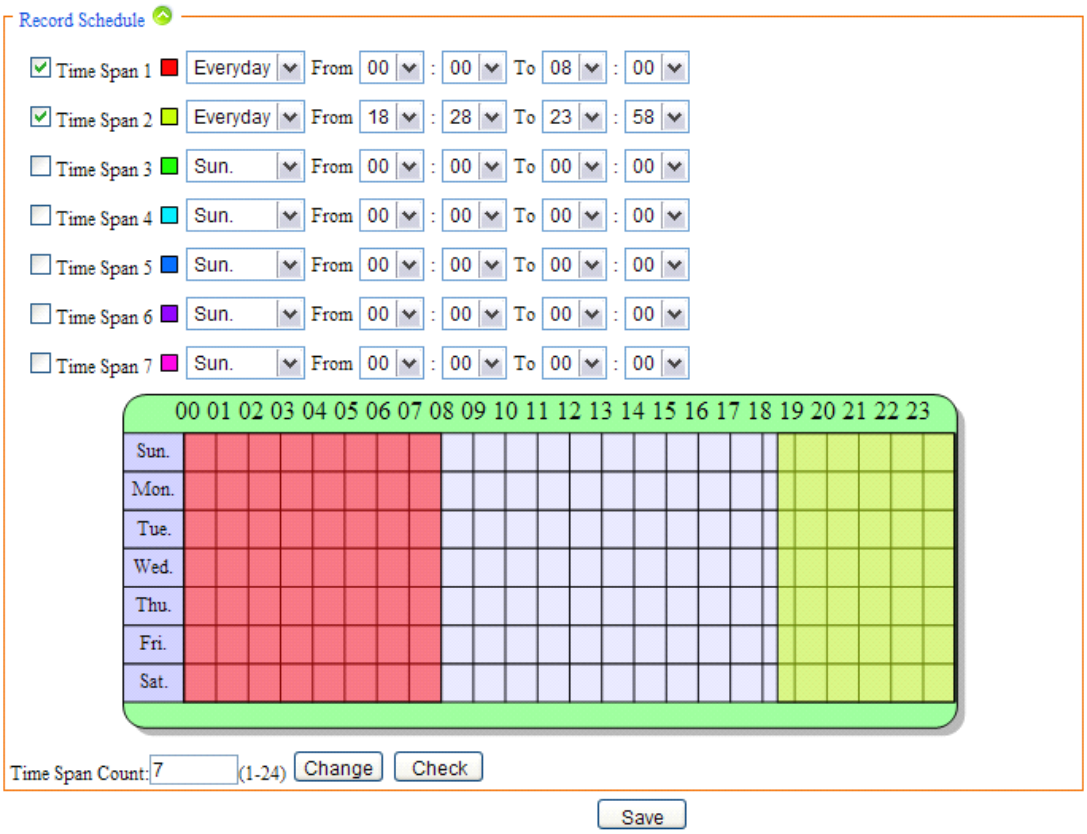

Record Schedule
Time Span 1 Everyday From 00 : 00 To 08 : 00
Time Span 2 Everyday From 18 : 28 To 23 : 58
Time Span 3 Sun. From 00 : 00 To 00 : 00
Time Span 4 Sun. From 00 : 00 To 00 : 00
Time Span 5 Sun. From 00 : 00 To 00 : 00
Time Span 6 Sun. From 00 : 00 To 00 : 00
Time Span 7 Sun. From 00 : 00 To 00 : 00
00 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23
Sun.
Mon.
Tue.
Wed.
Thu.
Fri.
Sat.
Time Span Count: 7 (1-24) Change Check
Save

Figure4.15 Time Table

You can set time span for schedule record. The max number of time span is 24. And the time for schedule record and motion detect alarm record can not be the same.

4.4 Storage Manage

4.4.1 Unmount

"Unmount" means remove the storage from the device. In order to prevent data destruction. When click "Unmount" it will pop a dialog figure 4.17 and click "OK", it will remove the storage. It prompt a dialog figure 4.18 means remove successfully.

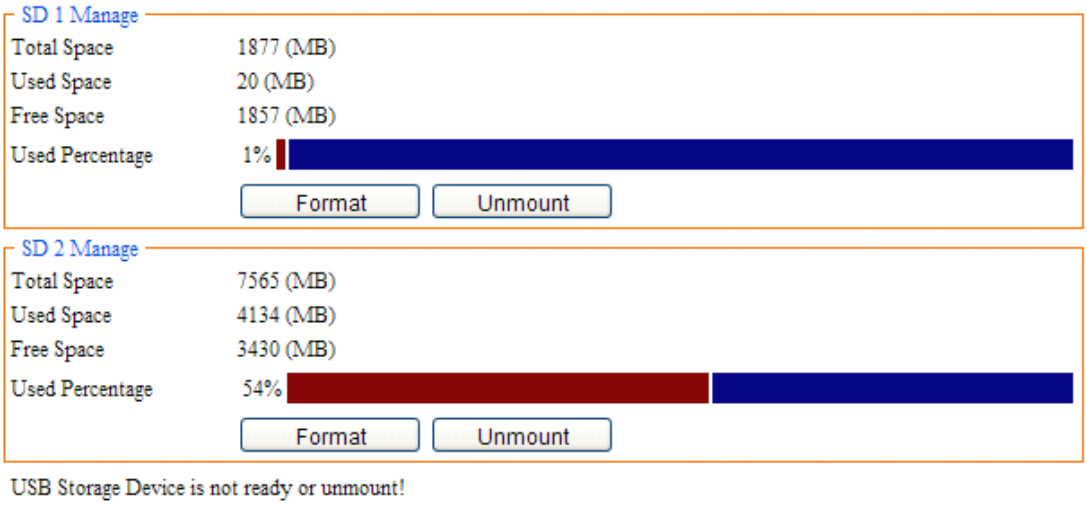


Figure4.16 Unmount

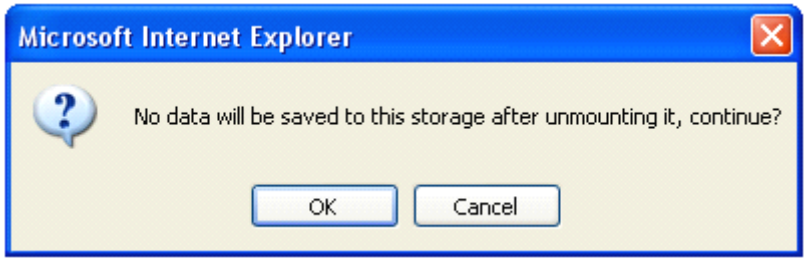


Figure4.17

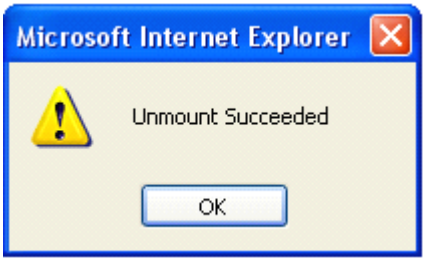


Figure4.18 Unmount

4.4.2 Format

Select the storage to be formatted and click “Format” button, then it will prompt two dialogs figure 4.19, click “OK” to format or click “Cancel” to cancel it.

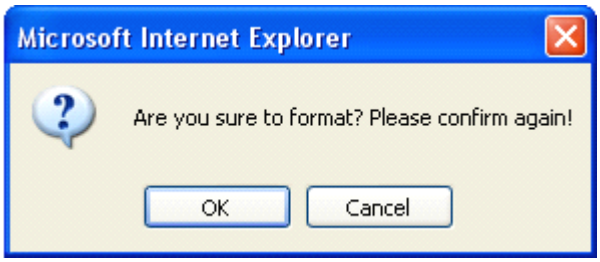


Figure4.19 Format

5 Alarm Setup

5.1 Motion Detect Alarm Setup

In this interface too many parameters need to be set, such as sensitivity, threshold, block count (checking area), night time span, night sensitivity, night alarm threshold and so on.
Sensitivity range from 1 to 100, 1 is the most insensitive; 100 is the most insensitive. Alarm threshold also range from 1 to 100, 1 is most likely to alarm; 100 is least likely to alarm.
As figure 5.1 we know, alarm is enabled, sensitivity is 100; alarm threshold is 10. Night time is also enabled, time span from 0:00 to 24:00.

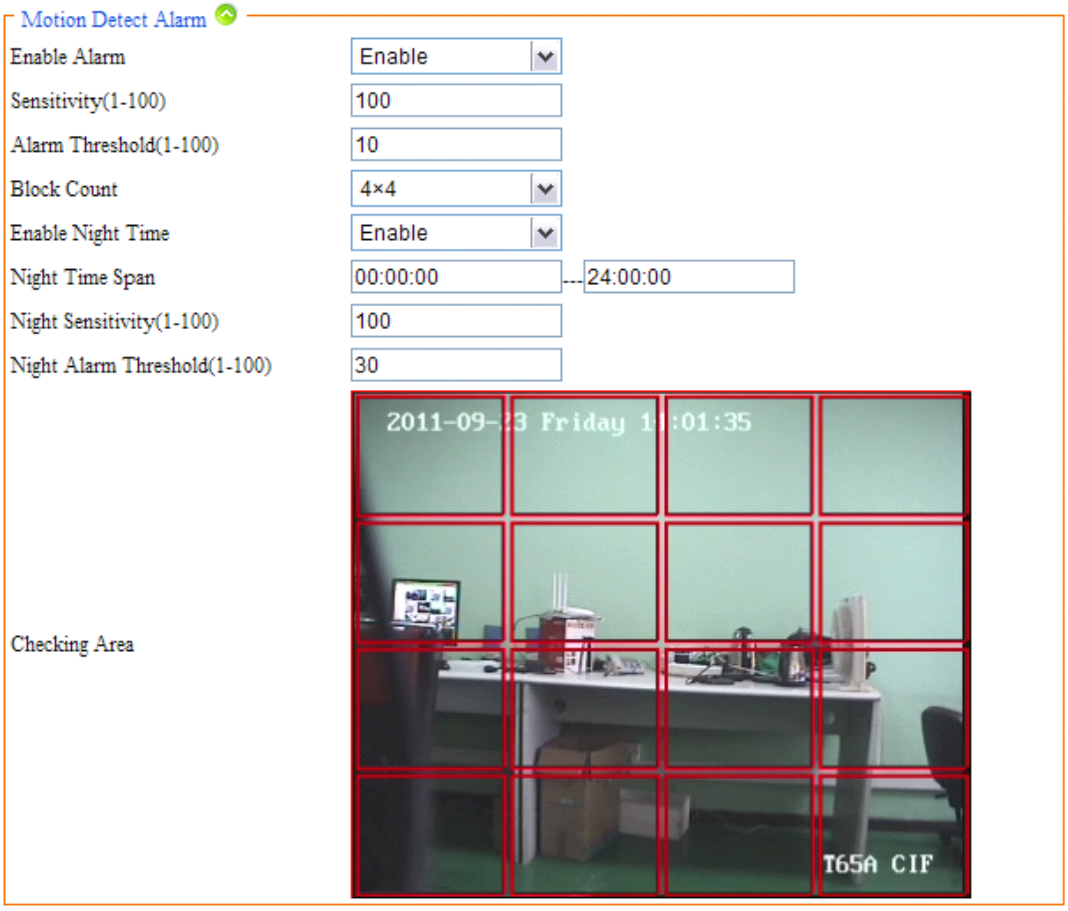


Figure5.1 Motion Detect Alarm

Also you can set alarm time as following. The max number of time span is 24. And the time for schedule record and motion detect alarm record can not be the same. Different time spans in different colors.

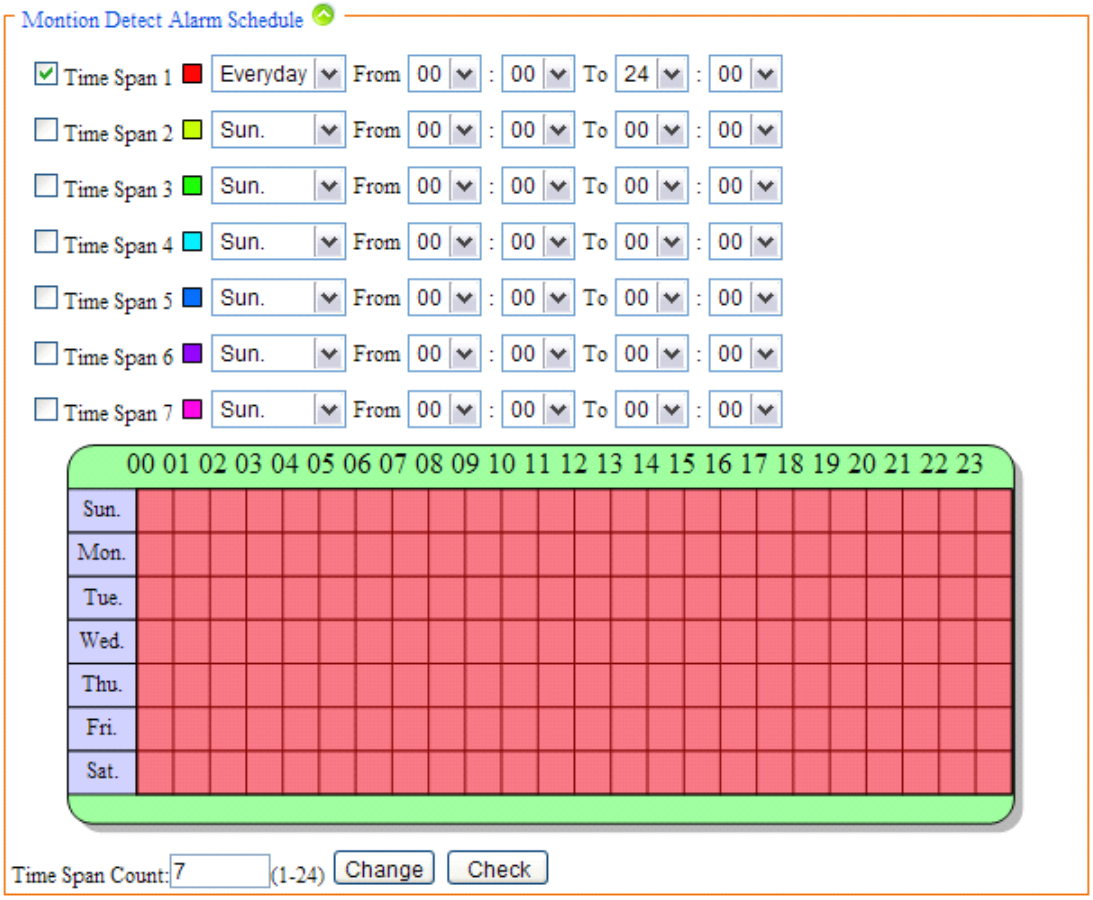

Montion Detect Alarm Schedule
Time Span 1 Everyday From 00 : 00 To 24 : 00
Time Span 2 Sun. From 00 : 00 To 00 : 00
Time Span 3 Sun. From 00 : 00 To 00 : 00
Time Span 4 Sun. From 00 : 00 To 00 : 00
Time Span 5 Sun. From 00 : 00 To 00 : 00
Time Span 6 Sun. From 00 : 00 To 00 : 00
Time Span 7 Sun. From 00 : 00 To 00 : 00
00 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23
Sun.
Mon.
Tue.
Wed.
Thu.
Fri.
Sat.
Time Span Count: 7 (1-24) Change Check

Figure5.2 Motion Detect Alarm Time

Each time span can not conflict, otherwise it will prompt figure 5.3:

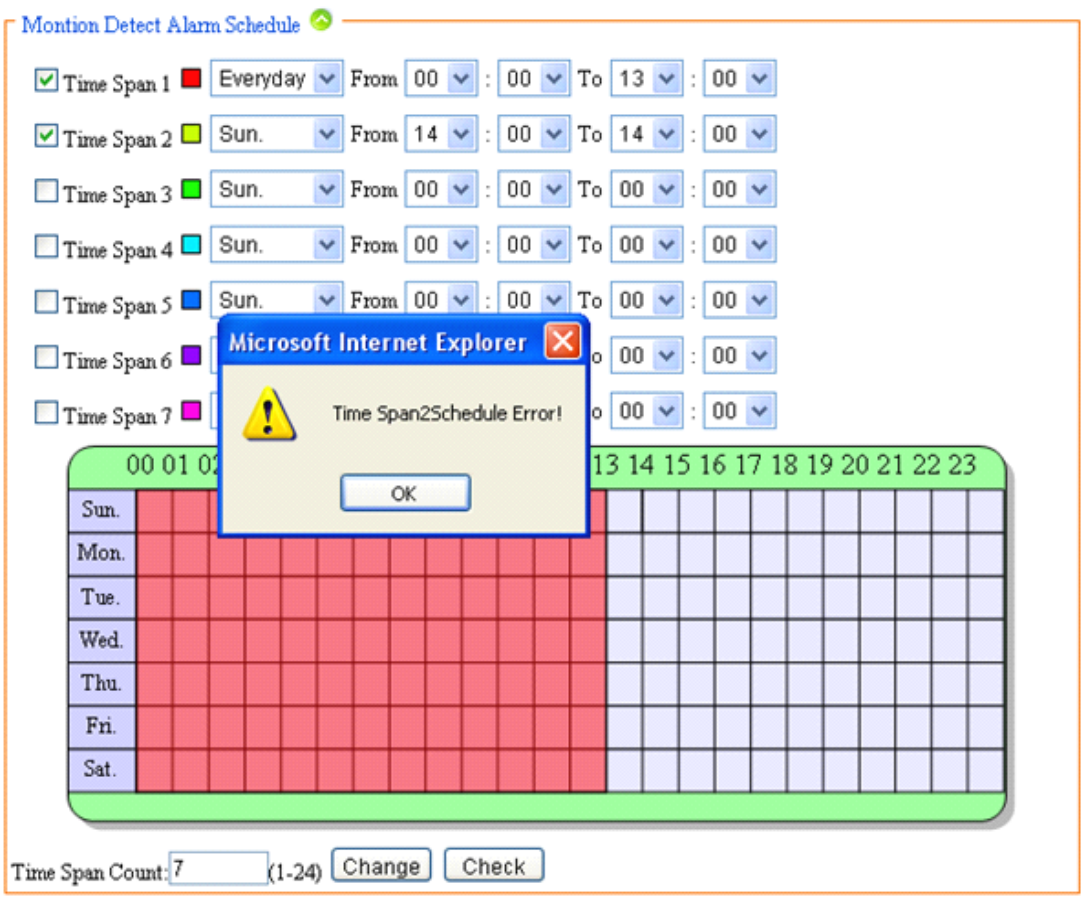


Figure5.3 Time Span Error

Alarm output is another way for alarm. Enable "alarm output" and connect external device for output such as speaker flash lamp. Alarm duration means during the time you set, it will go on alarm.

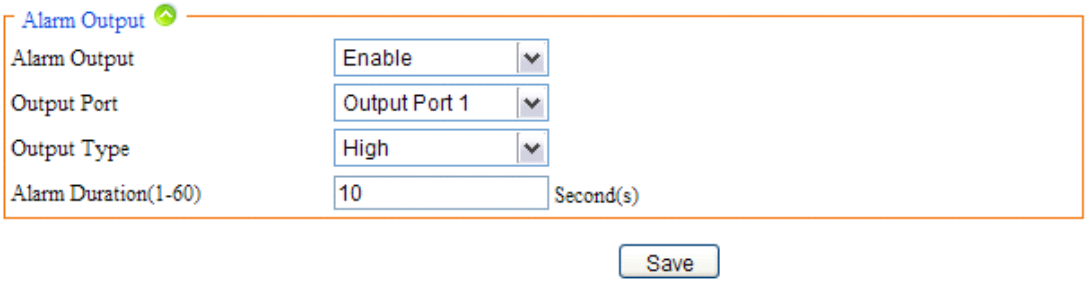


Figure5.4 Alarm Output

5.2 IO Input Alarm

IO input alarm is triggered by IO interface. Enable it in the interface and connect external device for inputting.

Figure5.5 IO Input Alarm

Also you can set alarm time as following. The max number of time span is 24. Different time span in different color.

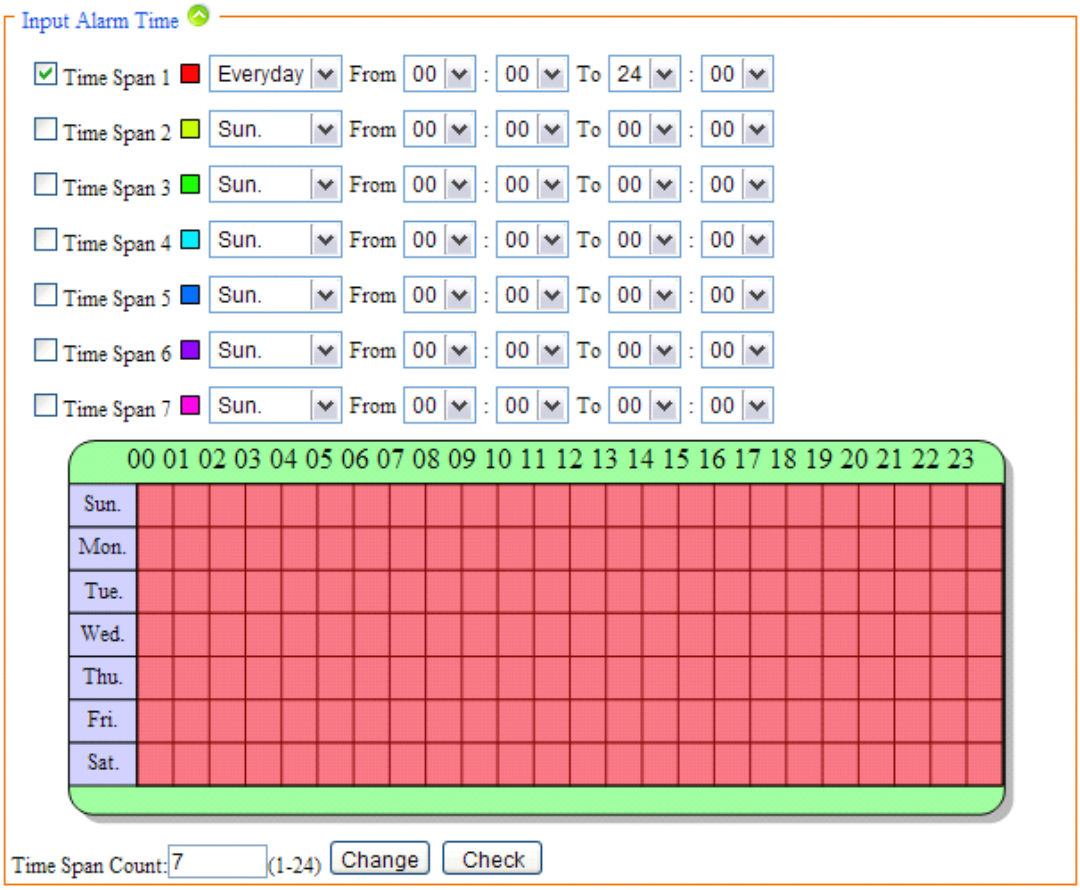

Input Alarm Time
Time Span 1 Everyday From 00 : 00 To 24 : 00
Time Span 2 Sun. From 00 : 00 To 00 : 00
Time Span 3 Sun. From 00 : 00 To 00 : 00
Time Span 4 Sun. From 00 : 00 To 00 : 00
Time Span 5 Sun. From 00 : 00 To 00 : 00
Time Span 6 Sun. From 00 : 00 To 00 : 00
Time Span 7 Sun. From 00 : 00 To 00 : 00
00 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23
Sun.
Mon.
Tue.
Wed.
Thu.
Fri.
Sat.
Time Span Count: 7 (1-24) Change Check

Figure5.6 Time Span

Alarm output is another way for IO alarm. Enable “alarm output” and connect external device for output such as flash lamp. Alarm duration means during the time you set, it will go on alarm.

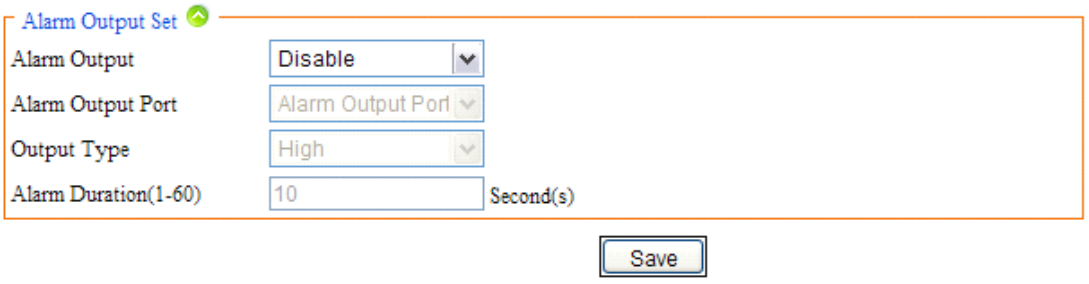


Figure5.7 Alarm Output Set

5.3 Video Lost Alarm

Too many reasons can cause video lost, such as disconnect video cable. In this case, we can enable “Video Lost alarm” for reminding. At the same time, many parameters need to be configured, as figure 5.8. Alarm output is another way for reminding “Video lost”. But you need to enable it and configure parameters for it.

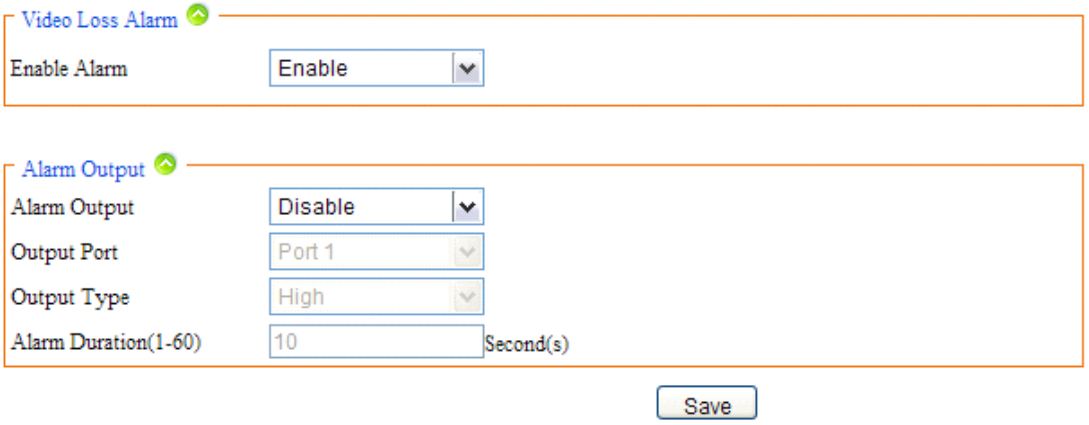


Figure5.8 Video Lost

5.4 Storage Full Alarm

If the storage with TS38MN then you can enable “Storage Full Alarm”, it will alarm when the usage of the storage close to 100%. In this page, alarm rate is usage of storage such as 95, it means it will alarm when the usage is 95%. Alarm output is similar to the other alarm output before.

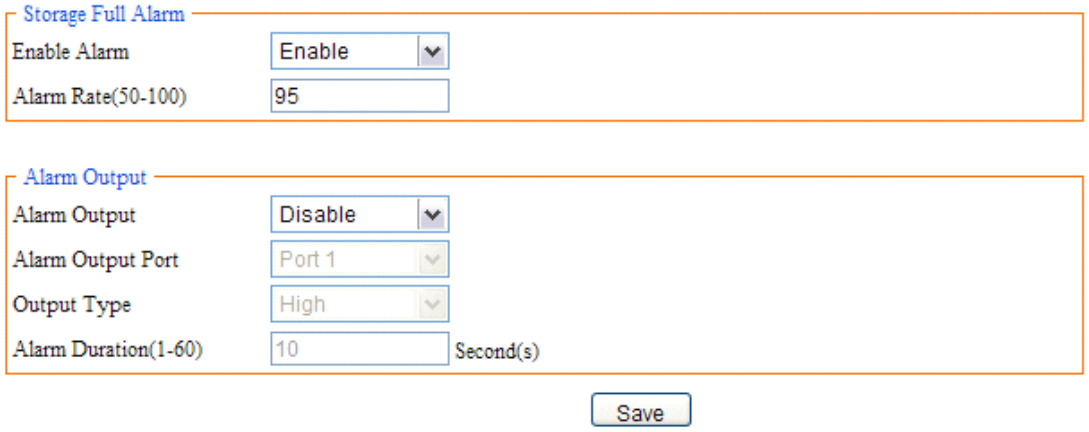


Figure5.9 Storage Full Alarm

6 System Setup

6.1 Serial Number and Kernel Version

In this page you can view kernel version, serial number, file system version and web page version. Figure 6.1.

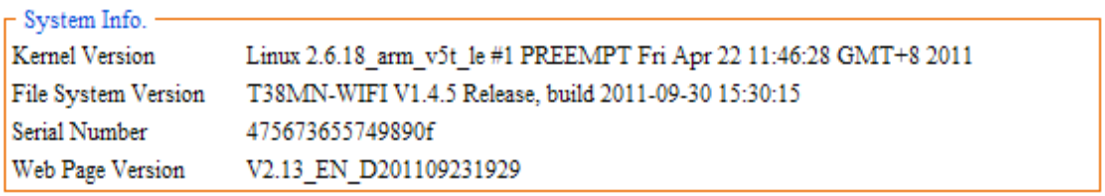


Figure6.1 System Info

6.2 Account Manage

6.2.1 Add, Delete

Add and delete user for accessing the TS38MN in this page. The username can't be empty, only letter and number are allowed. The length of username is 30 bytes.
Up to 10 users. The entire users will display in the "All Accounts" table.

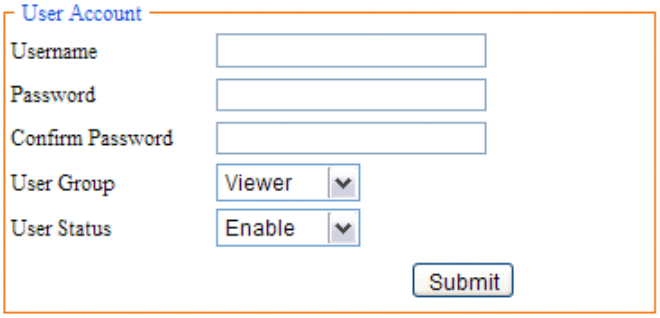


Figure6.2 Add User

Select the user to be deleted, and click "Delete", and it will pop-up a dialog, click "OK", then the user was deleted figure 6.3, 6.4.

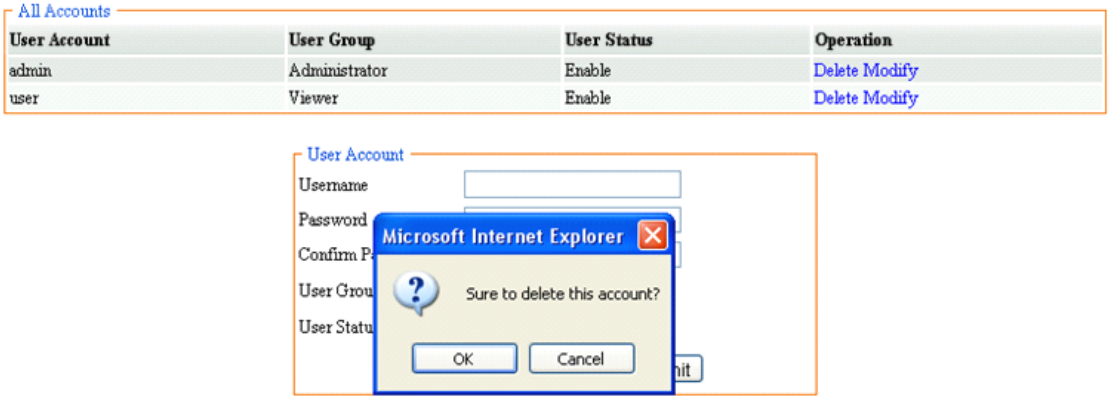


Figure6.3 Delete user

Figure6.4 Delete user succeeded

6.2.2 User Group

Different user can have different permissions. Click “Modify” to modify the user or disable it or modify password.
There are three different types of user group, viewer, operator and administrator. As a viewer, you only can view network status, media setup, storage info, serial number and so on. As an operator, you only can operate but can’t mange. Of course, administrator can do anything.
If you want to modify a user as an operator. First you need to select it and click “modify”, then it will display in “User Account” table, last you need to select “Operator” in “User Group” as figure 6.5 and click “Submit”. It will prompt “Modify user succeeded” figure6.6.

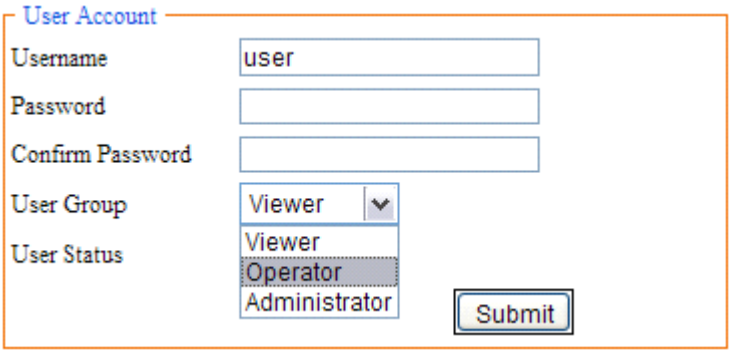


Figure6.5 Modify User

Figure6.6 Modify Succeeded

6.3 Time Setup

There are two type of update mode in this system. One is “Manual”, the other is “NTP Server”.
“NTP Server” will choose a same time zone with the client automatically. NTP IP is “time.windows.com”. NTP port can be a valid port and “Refresh Time” can range form 60 to 999999. Save all parameter, then it will update as a network clock.
“Manual” means update time manually. You need to enter time, time zone and date manually.
It will reboot after re-set time

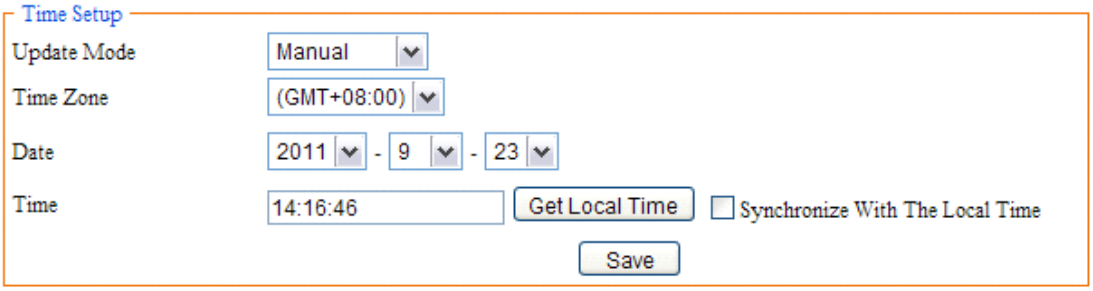


Figure6.7 Manual

Figure6.8 MTP Server

6.4 Log Setup

In this page, you can set “output log type” according to actual needs. There are many types such as “Debug”, “Run”, “Error”, “Operation”, “Alarm”, “Statistic” and “Common”. Saving days range from 7-30 days. Store strategy includes “Overwrite When Full” and “Stop When Full” which is the same with “Storage Strategy” of record basic setup. Also you can backup the logs by two methods, one is “Update to Email”, and the other is “Update to FTP”. But first you need to enable “Auto Backup”.

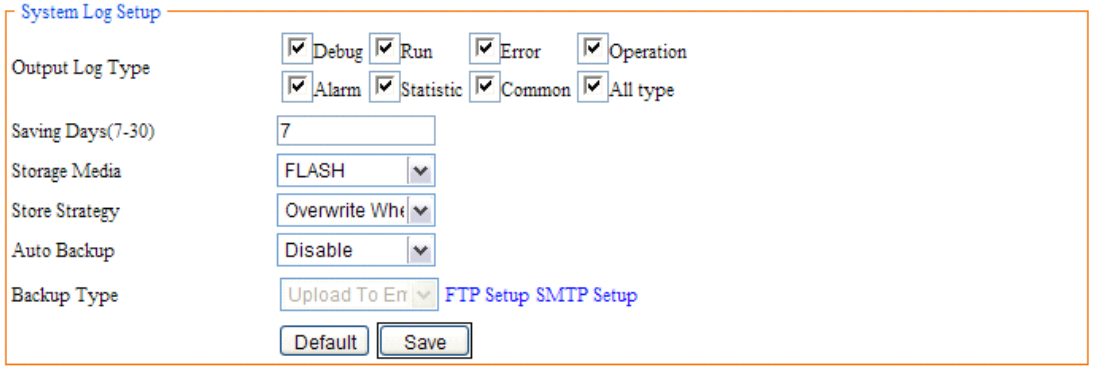


Figure6.9 System Log Setup

Figure6.10 Save Succeeded

6.5 Log View

This page, you can view the all logs that have been saved. First set “Log Date” that you want to view the logs and “Log Type”, click “Search”. Then it will list in the “System Log” table.
Search condition figure 6.11:

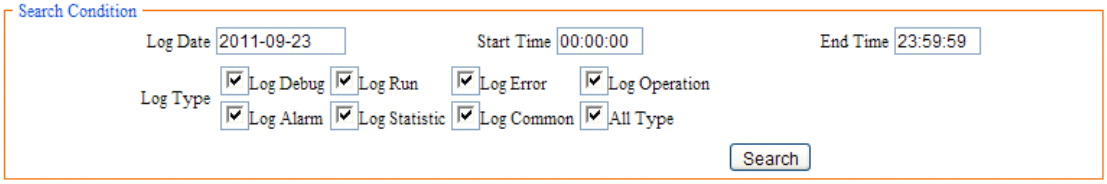


Figure6.11 Search Condition

System log figure 6.12:

System Log

Log Message
20110923-00:02:31 3 user: admin login, session=20110922235638_074a5aa15ffe60a9
20110923-00:03:33 4 Alarm: 2011-09-23 00:03:33 info=motion detect, code=14
20110923-00:04:09 4 Alarm: 2011-09-23 00:04:09 info=motion detect, code=14
20110923-00:07:50 3 user: admin login, session=20110922235638_074a5aa15ffe60a9
20110923-00:09:19 3 user: admin login, session=20110922235638_074a5aa15ffe60a9
20110923-00:10:36 4 Alarm: 2011-09-23 00:10:36 info=GPIO22 1->0, code=15
20110923-00:10:36 4 Alarm: 2011-09-23 00:10:36 info=free space lacking, code=17
20110923-00:10:45 4 Alarm: 2011-09-23 00:10:36 info=sd1 pluged in , code=5
20110923-00:10:50 1 ready to work...
20110923-00:10:54 3 user: admin login, session=20110923001054_937db5e8fc35ea3a
20110923-00:10:54 3 change ftp config.
20110923-00:10:56 3 user: admin login, session=20110923001054_937db5e8fc35ea3a
20110923-00:10:58 3 user: admin login, session=20110923001054_937db5e8fc35ea3a
20110923-00:10:59 3 user: admin login, session=20110923001054_937db5e8fc35ea3a
20110923-00:10:59 3 user: admin login, session=20110923001054_937db5e8fc35ea3a
20110923-00:10:59 3 user: admin login, session=20110923001054_937db5e8fc35ea3a
20110923-00:10:59 3 user: admin login, session=20110923001054_937db5e8fc35ea3a
20110923-00:21:39 4 Alarm: 2011-09-23 00:21:39 info=GPIO22 1->0, code=15
20110923-00:21:39 4 Alarm: 2011-09-23 00:21:39 info=free space lacking, code=17
20110923-00:21:50 4 Alarm: 2011-09-23 00:21:39 info=sd1 pluged in , code=5

Previous Page Page: 1 Next Page

Figure6.12 Log View

6.6 Log File

There you can download or delete logs. Set “search condition” and click “Search”, it will display log by day figure 6.14.

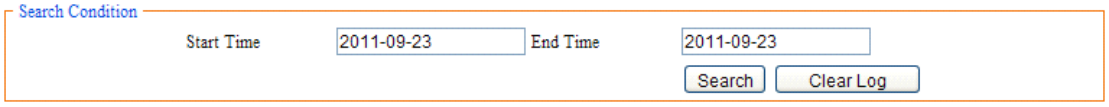


Figure6.13 Search Condition

Log File List

Log File Name	File Size	Operate
20110923.log	17700	Delete DownLoad

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Figure6.14 Log File List

In the “Log File List”, you can download or delete log. Click “download” then it will download the log.

Click “Delete” then it will delete the log. It will prompt “Delete Succeeded” after delete the log figure 6.15.

Figure6.15 Delete Succeeded

6.7 Config Manage

When all parameters have been modified, you can download the configuration file and save it. Then you do not need to modify again only upload configuration file. Also you can view the configuration file in this page.

Before upload configuration file, you must have a configure file first, and then click “Browse” to find the configuration file, last click “Upload”, it will upload configuration file and reboot automatically.

The configure file can be backup to Internet as figure 6.17. First set FTP or SMTP and select “Backup to mail” or “Backup to FTP”, and then click “Backup”, you can query the configuration file by FTP or Email.

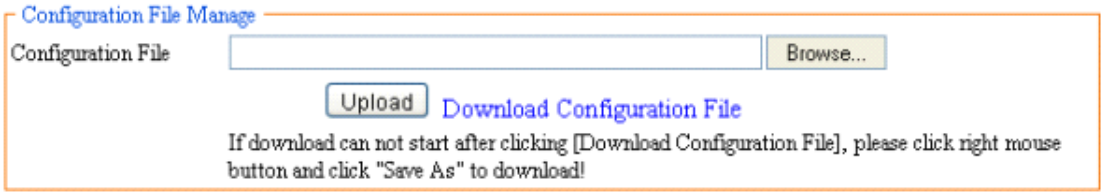
Configuration File Manage
Configuration File
Browse...
Upload
Download Configuration File
If download can not start after clicking [Download Configuration File], please click right mouse button and click "Save As" to download!

Figure6.16 Upload and Download

Figure6.17 Backup to Internet

6.8 Restore Config

“Restore Config” means restore factory settings. All the parameters set by you will be last. There will be confirming figure 6.18, click “OK”. All the parameters restore to default configure and reboot automatically

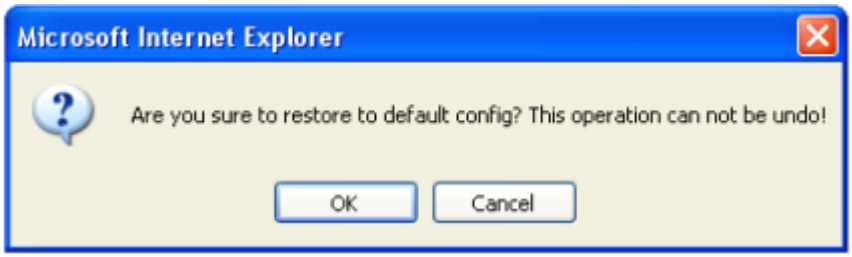

Figure6.18 Restore Config

6.9 System Update

When the software needs to be update, you can update firmware which would be provided by device suppliers.

Click “Browse” to select the correct firmware (figure 6.20) and click “Update”, it will prompt a dialog (figure 6.21), then click “OK”. After a while, it will prompt update succeeded ad figure 6.22, click “OK”, it will reboot automatically. If it update failed, it also will prompt a dialog to tell you update failed.

Note: the device can not be power off when updating.

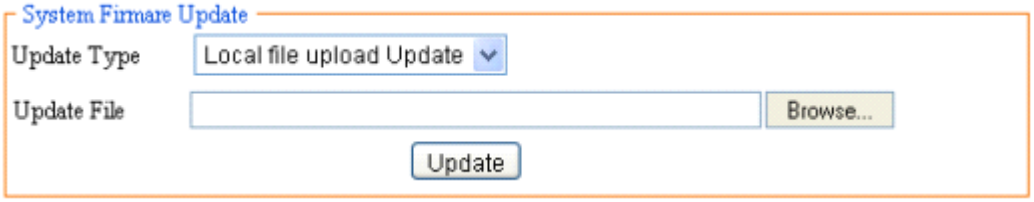

Figure6.19 System Firmware Update

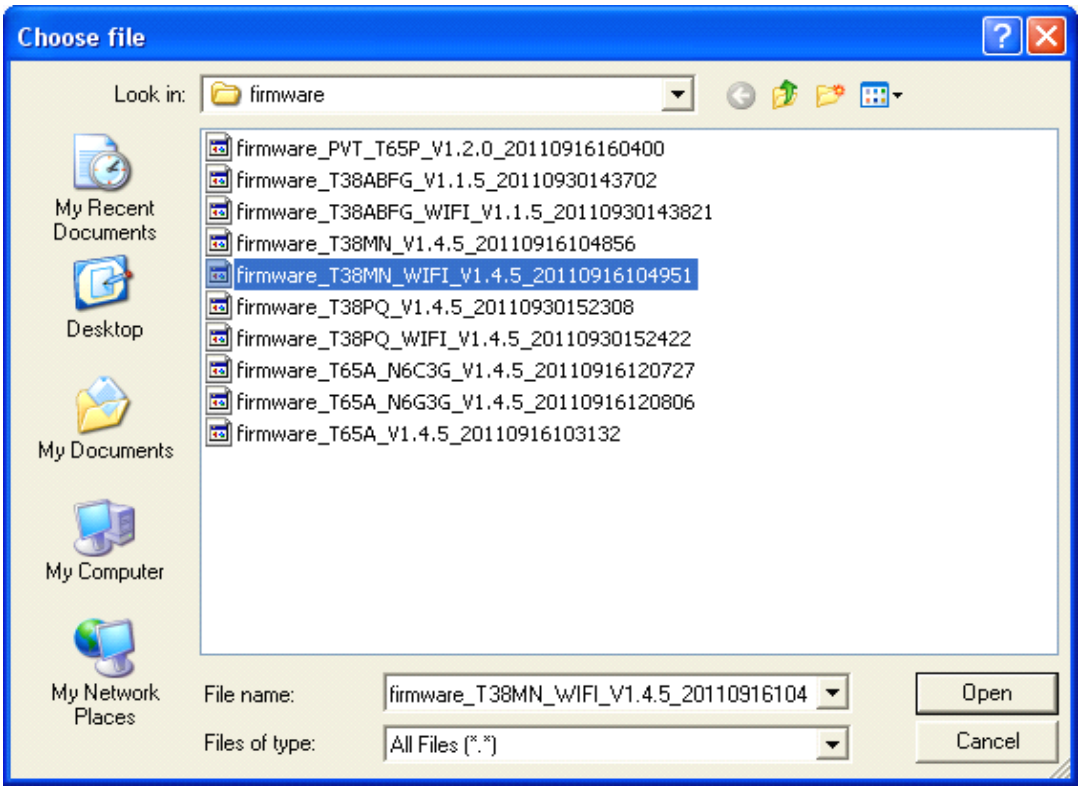

Figure6.20 Select firmware

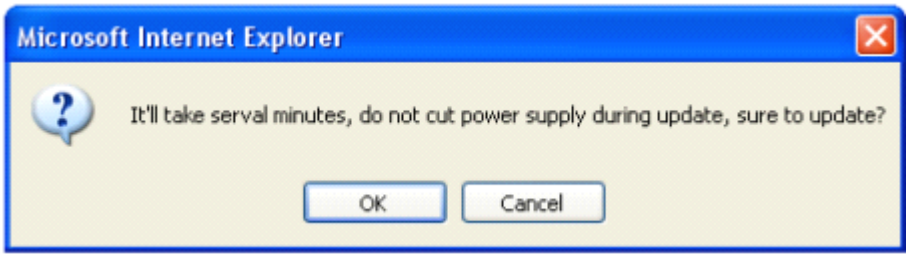

Figure6.21 Confirm Update

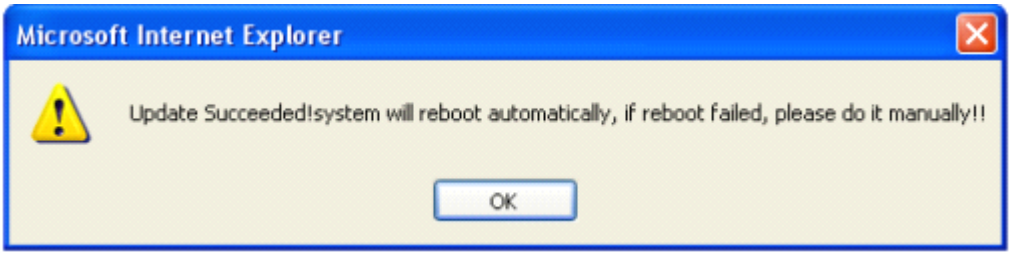
Microsoft Internet Explorer
Update Succeeded!system will reboot automatically, if reboot failed, please do it manually!!
OK

Figure6.22 Update Succeeded

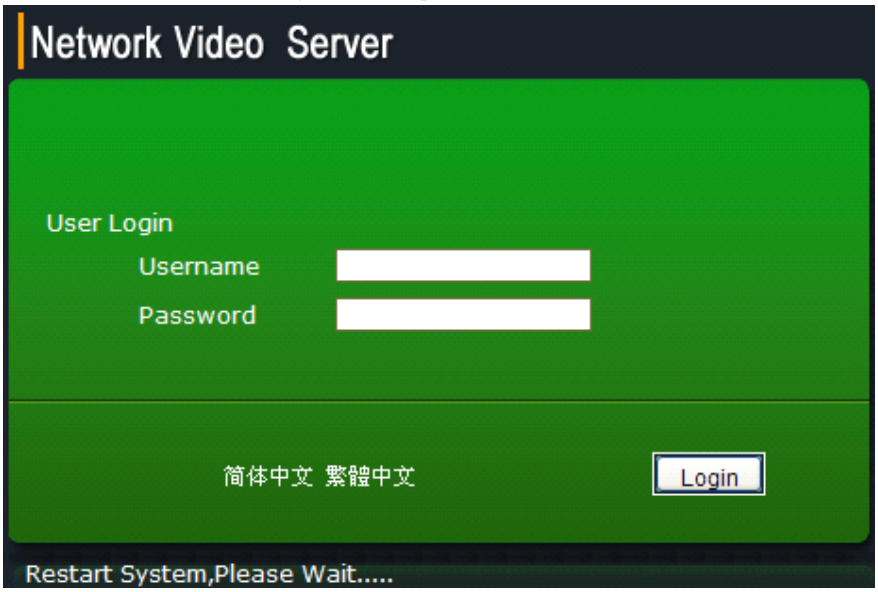

Figure6.23 Reboot

6.10 Reboot

When you want to reboot the device, then you can click “Reboot”. It will save all parameters and configuration. And it also will prompt a dialog to confirm. The restart time is about 75 seconds. Click “Cancel” to cancel reboot.

Figure6.24 reboot

6.11 Language

There are three languages “Simplified Chinese”, “Traditional Chinese” and “English”. You can choose it by yourself and save it.

7 Frequently Asked Questions

7.1 Why can not access the TS38MN by IE?

There maybe 4 reasons: NO.1, the network unreasonable. First you can connect network by PC, check the network cable is good. And check the network between the TS38MN and the PC is good as figure 1.3. NO.2 the IP address of the TS38MN is occupied by other device or PC. You can connect the TS38MN with your PC directly, and modify the IP address. NO.3 the TS38MN maybe in other network. Check the IP address and net mask. NO.4 unknown. You can restore the TS38MN to default configuration.

7.2 Why the PTZ can not control?

Two reasons: NO.1 the PTZ protocol or address port or baud rate is incorrect, and then you need to modify the parameter according to the actual application as figure 3.1. NO.2 the PTZ cable is disconnected, and then you need to re-connect the cables.

7.3 Why can not switch the data?

Possible cause:
NO.1 Two-Switches. Whether the IP address is correct or not?
NO.2 Three-Switches. Whether port and physical address bindings?
NO.3 Firewall
First you can try to connect the TS38MN as figure 1.3. If the network timeout, you need to check the port mapping or re-set the firewall.

7.4 Why can not access the TS38MN after update?

Clean browser cache. Steps: open IE, click “Tools” and select “Internet Options”, then you can see “Temporary Internet files” and click “Delete Files”, it will prompt a dialog you need to check “Delete all offline content” and click “OK”. Also you can click “Start” and select “Run” then enter “cmd”, enter “arp -d” in “Command Prompt” interface. Re-access the TS38MN.

7.5 No sound after click “Voice talk”

First confirm the “Voice talk” start succeeded. Then check the TS38MN connect audio input device. Last check the wheat and headphones is good.